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SONY®

VIDEOCASSETTE PLAYER

PVW-2600P

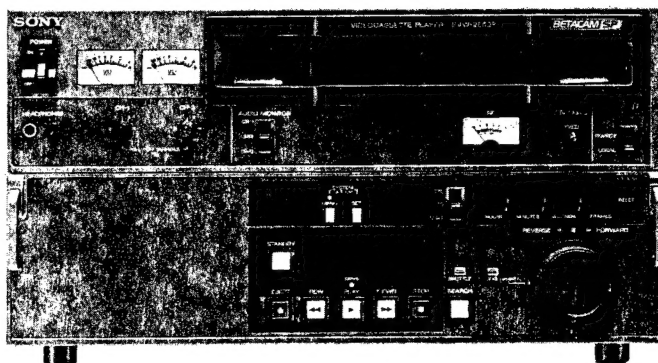
SERVICE MANUAL

Vol.2 1st Edition (Revised 1)

Serial No.10001 and Higher
(EK)

Serial No.10001 and Higher
(USA CANADA)

BETACAM SP
2000PRO



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17. SEMICONDUCTOR PIN ASSIGNMENT

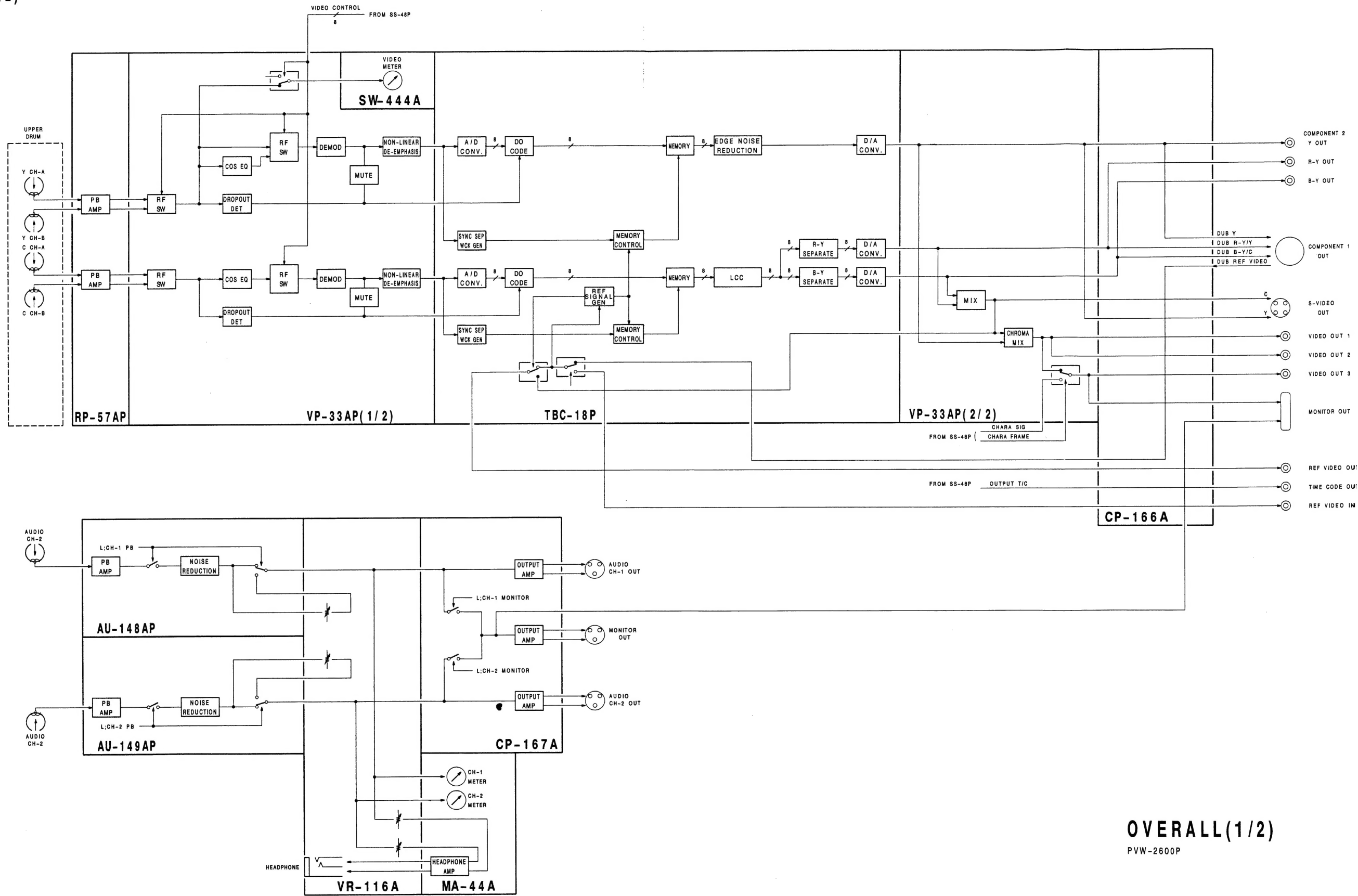
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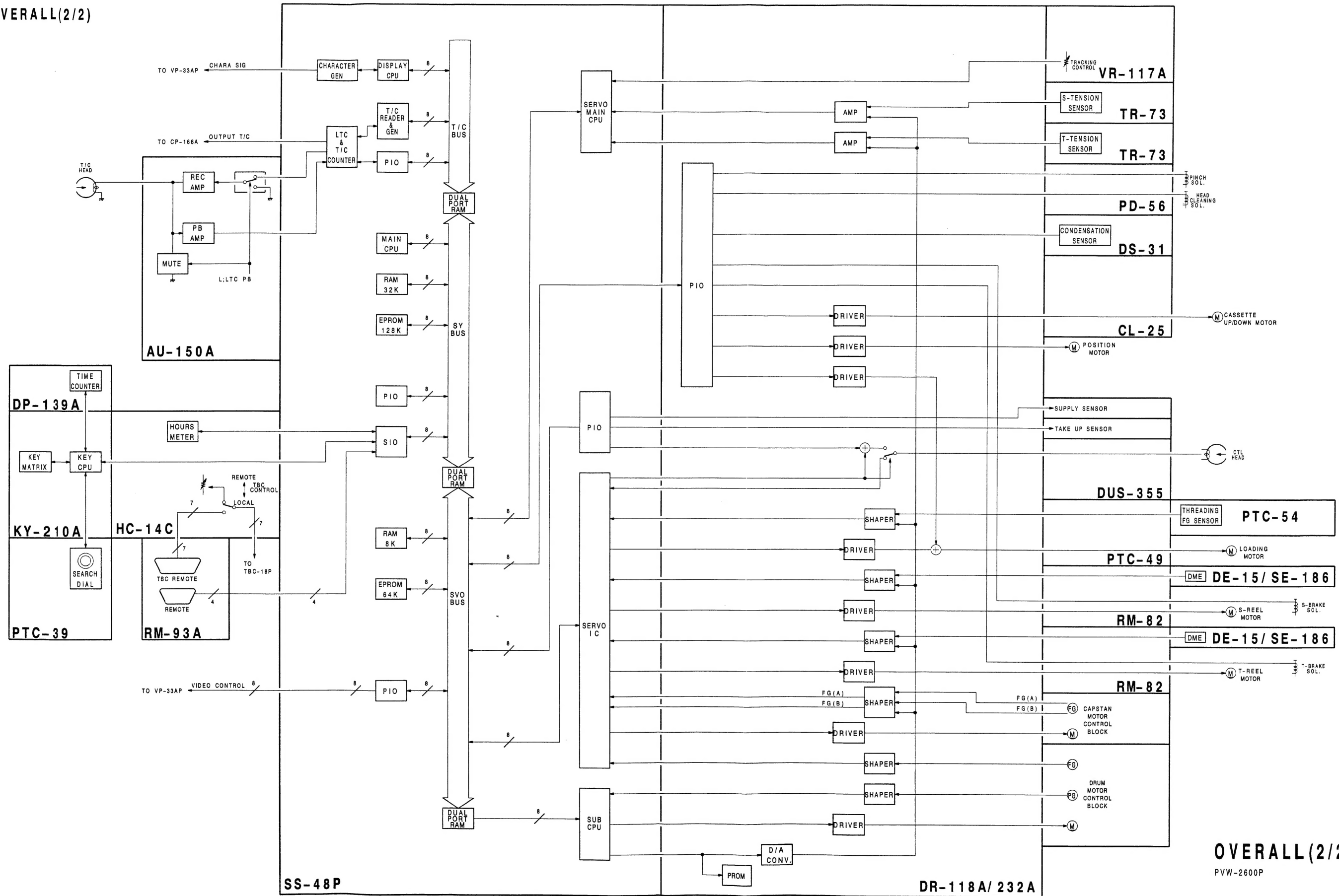
19. CHANGED PARTS

SECTION 14
BLOCK DIAGRAM

OVERALL(1/2)

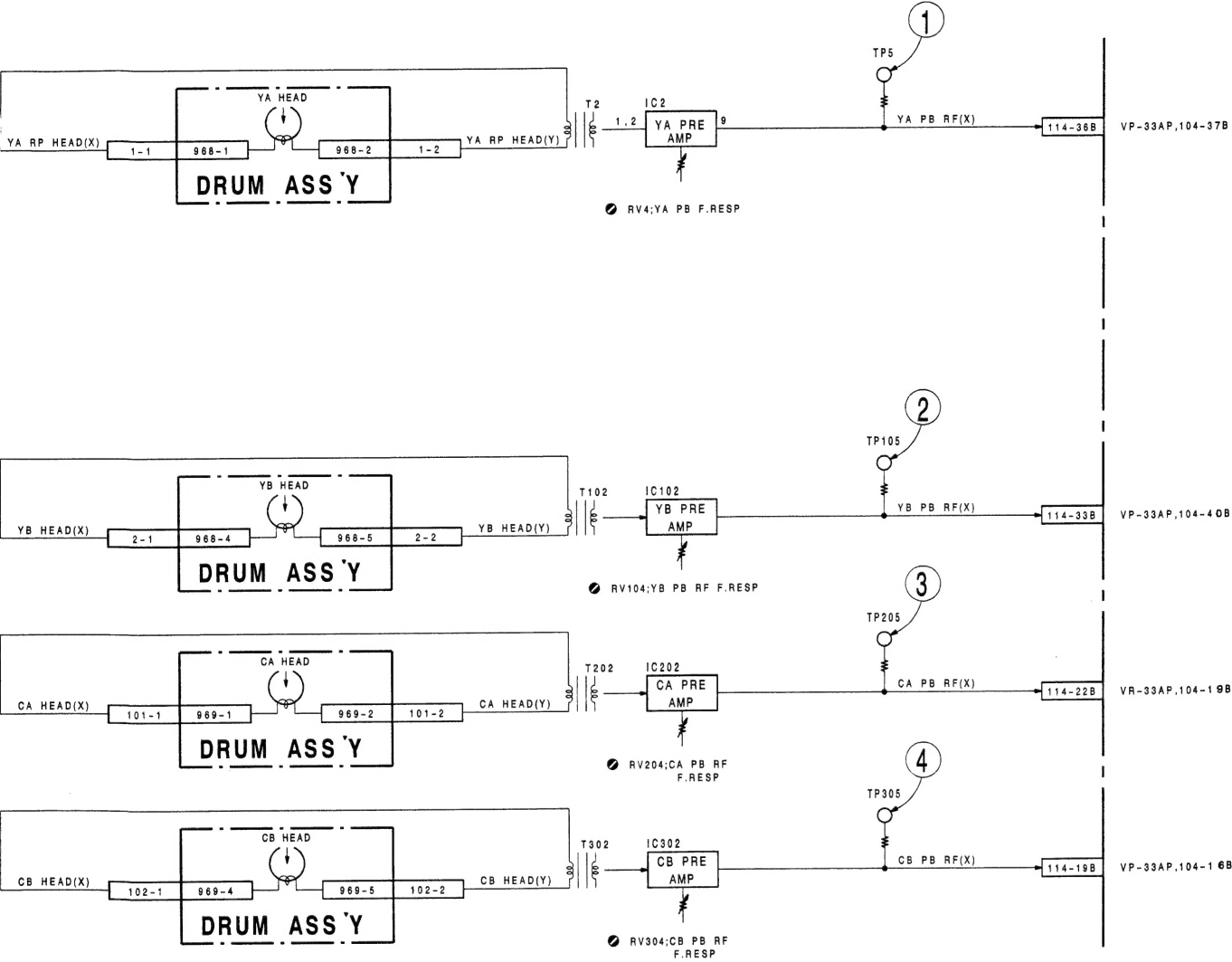


OVERALL(2/2)

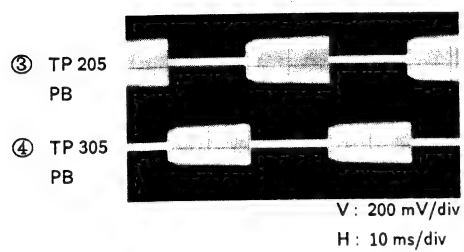
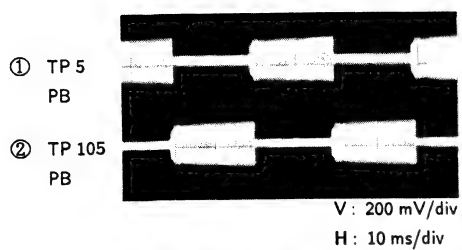


OVERALL(2/2)
PVW-2600P

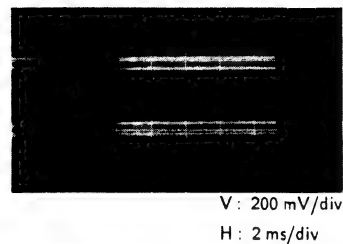
RF PB AMPLIFIER



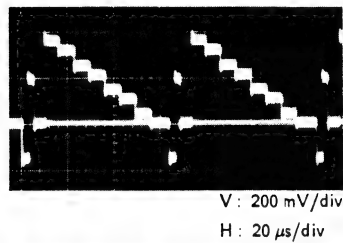
RP-57AP
PVW-2600P



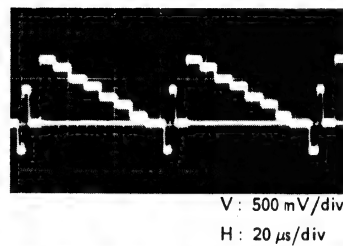
① TP 201
PB



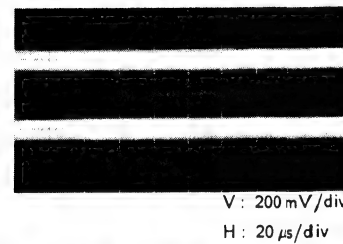
② TP 202
PB



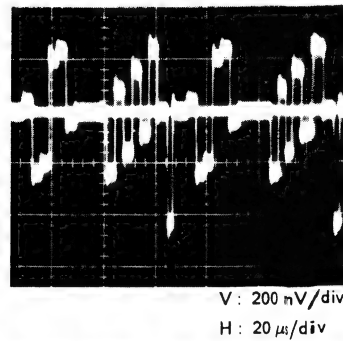
③ TP 204
PB



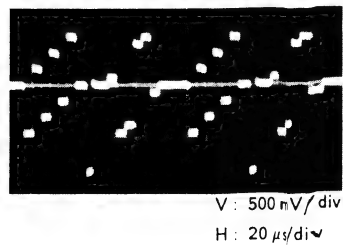
④ TP 501
PB



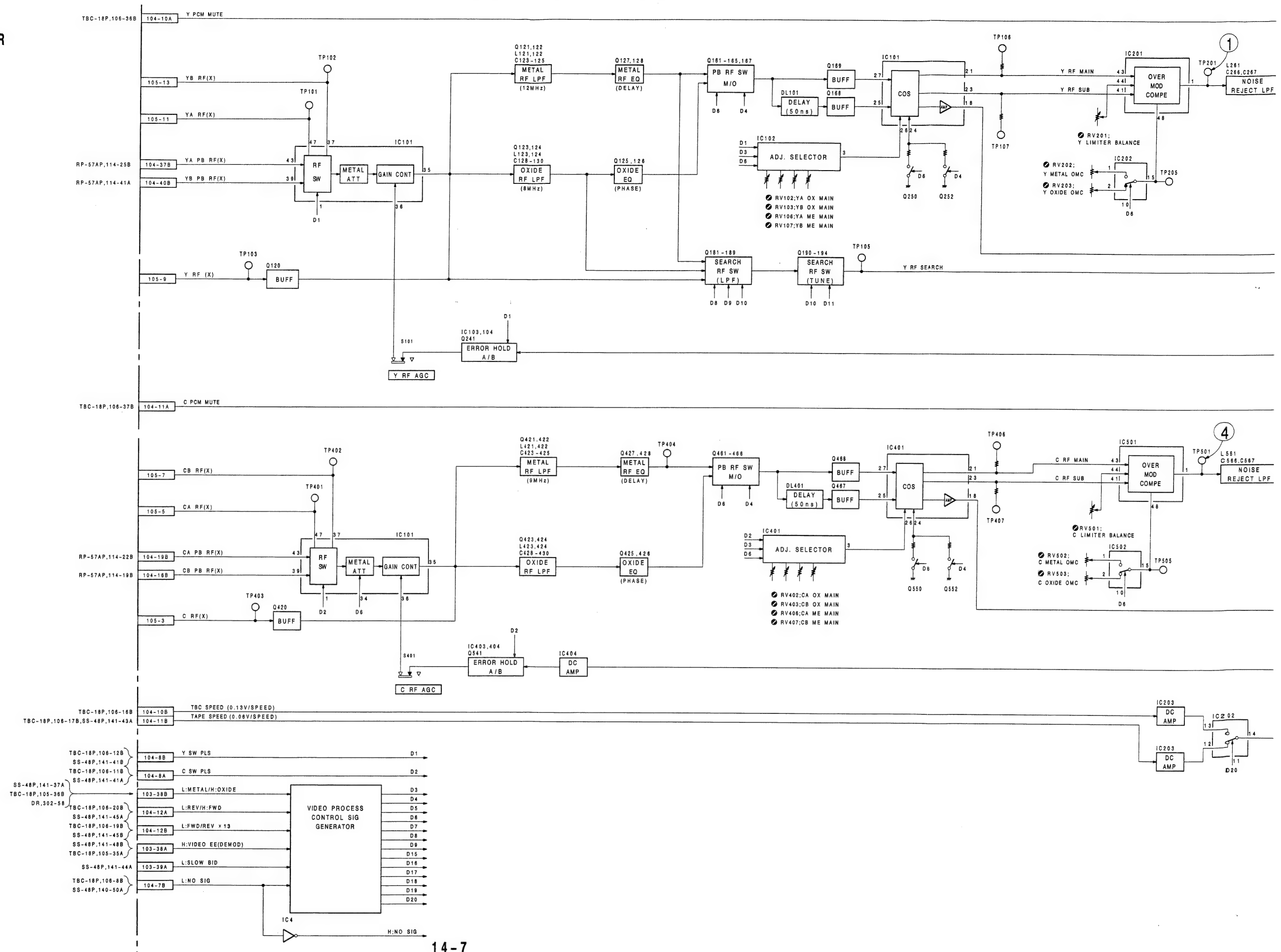
⑤ TP 502
PB



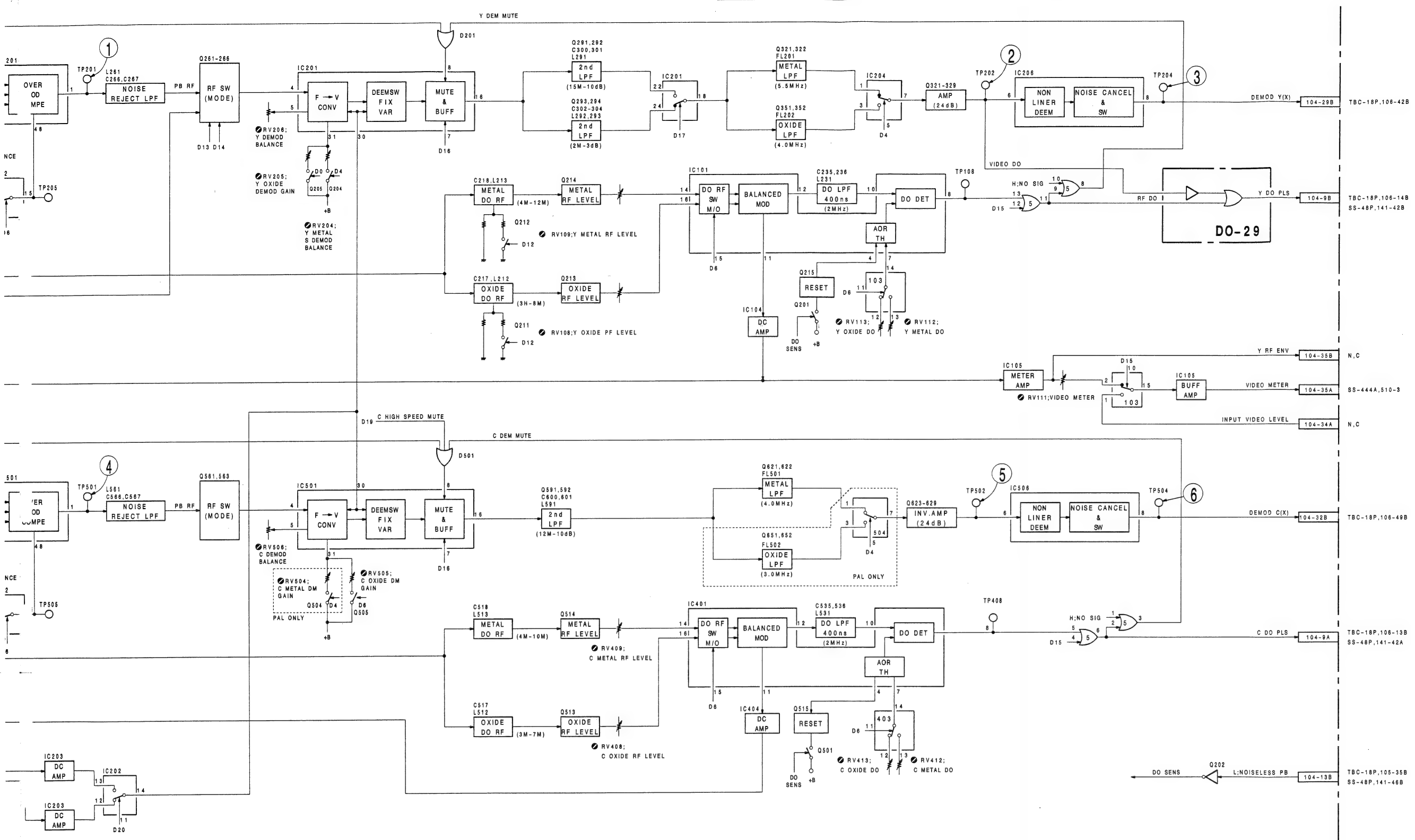
⑥ TP 504
PB



PB RF EQ,DEMODULATOR

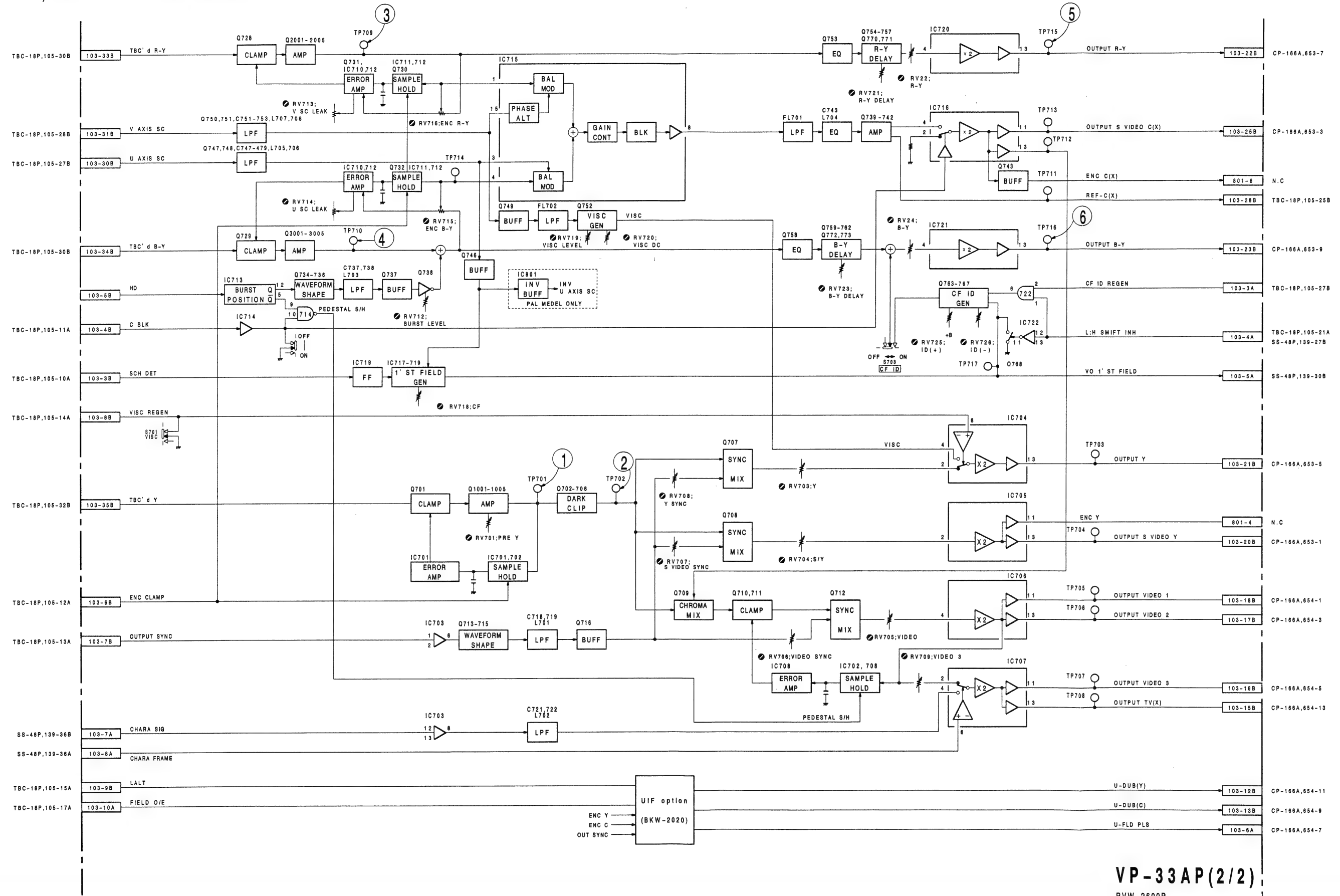


PB RF EQ,DEM. PB RF EQ,DEM.



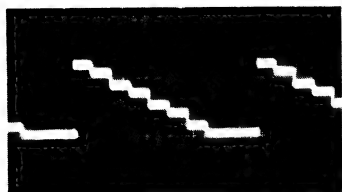
VP-33AP(1/2)
PVW-2600P

ENCODE,COMPOSITE OUTPUT DRIVER



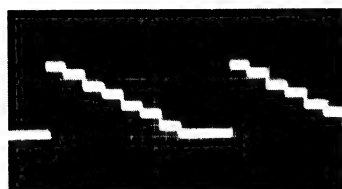
VP-33AP(2/2)
PVW-2600P

① TP 701
PB



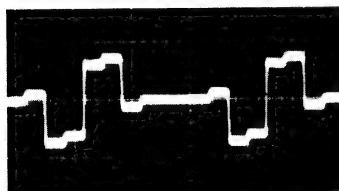
V : 1 V/div
H : 20 μ s/div

② TP 702
PB



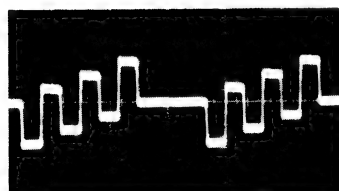
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③ TP 709
PB



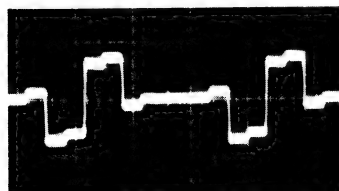
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H : 20 μ s/div

④ TP 710
PB



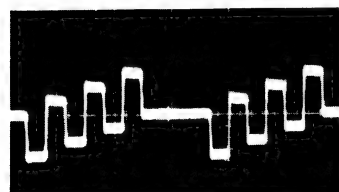
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H : 20 μ s/div

⑤ TP 715
PB



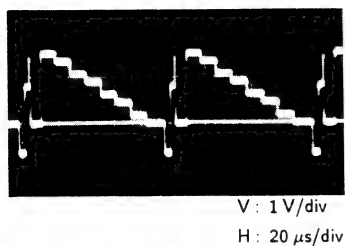
V : 500 mV/div
H : 20 μ s/div

⑥ TP 716
PB

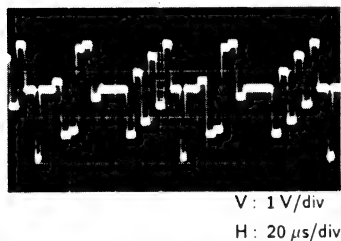


V : 500 mV/div
H : 20 μ s/div

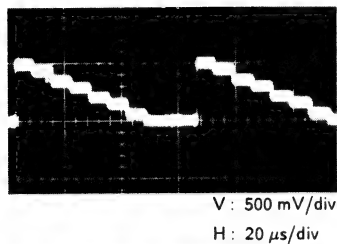
① TP 101
PB



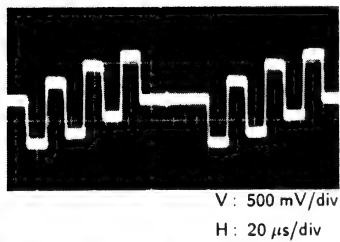
② TP 201
PB



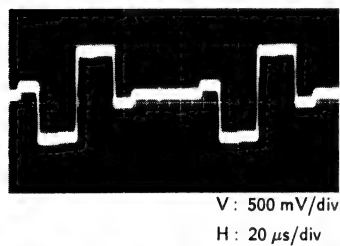
③ TP 500
PB



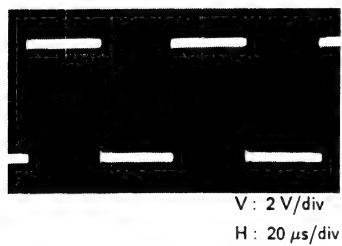
④ TP 501
PB



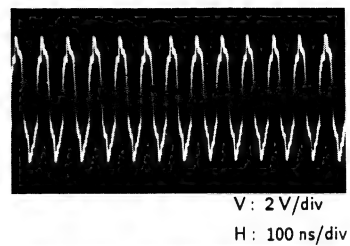
⑤ TP 502
PB



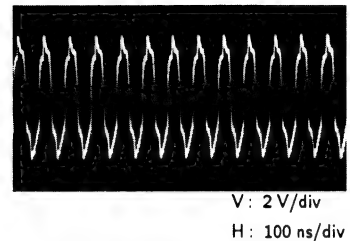
⑥ TP 303
PB



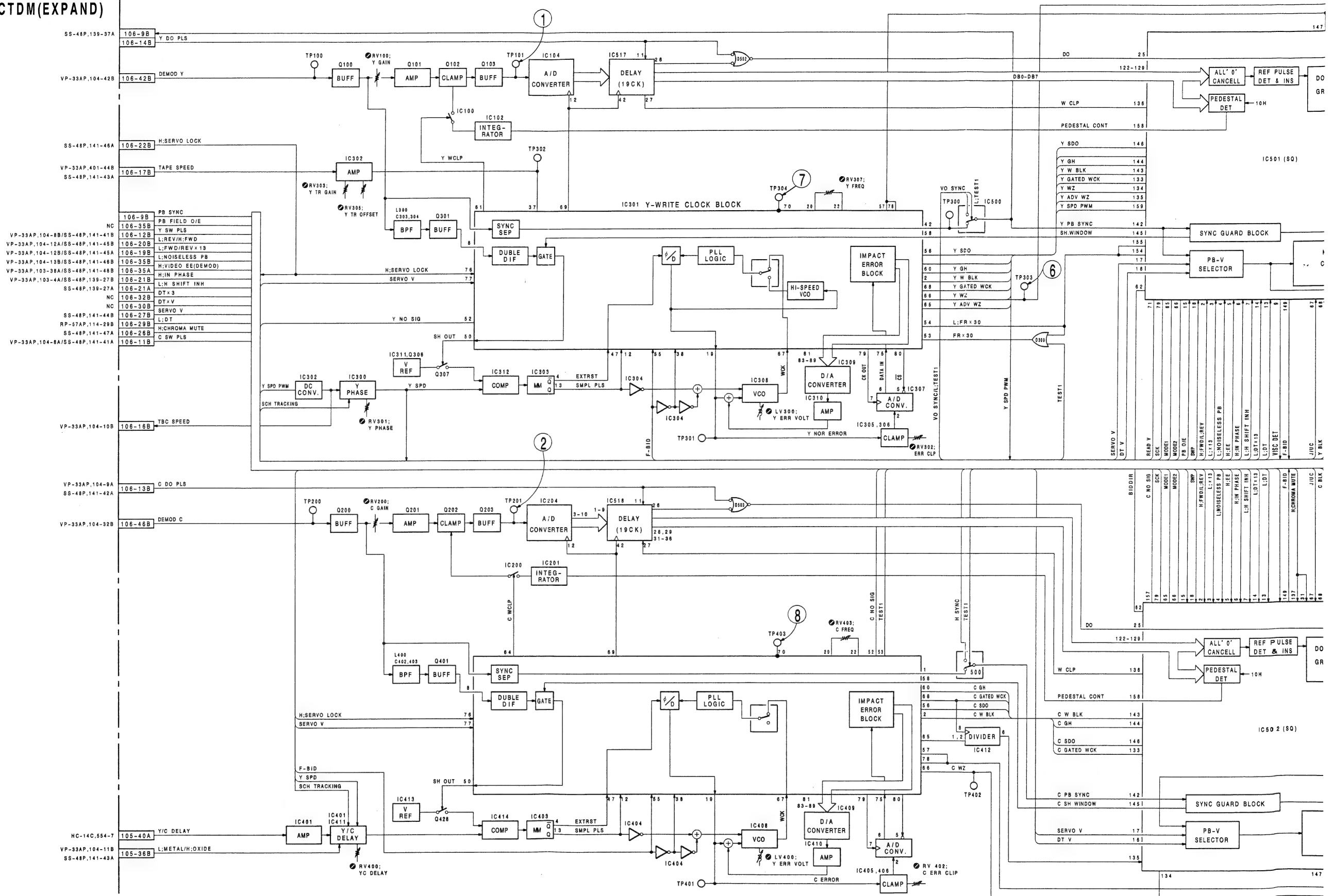
⑦ TP 304
PB

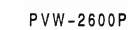


⑧ TP 403
PB

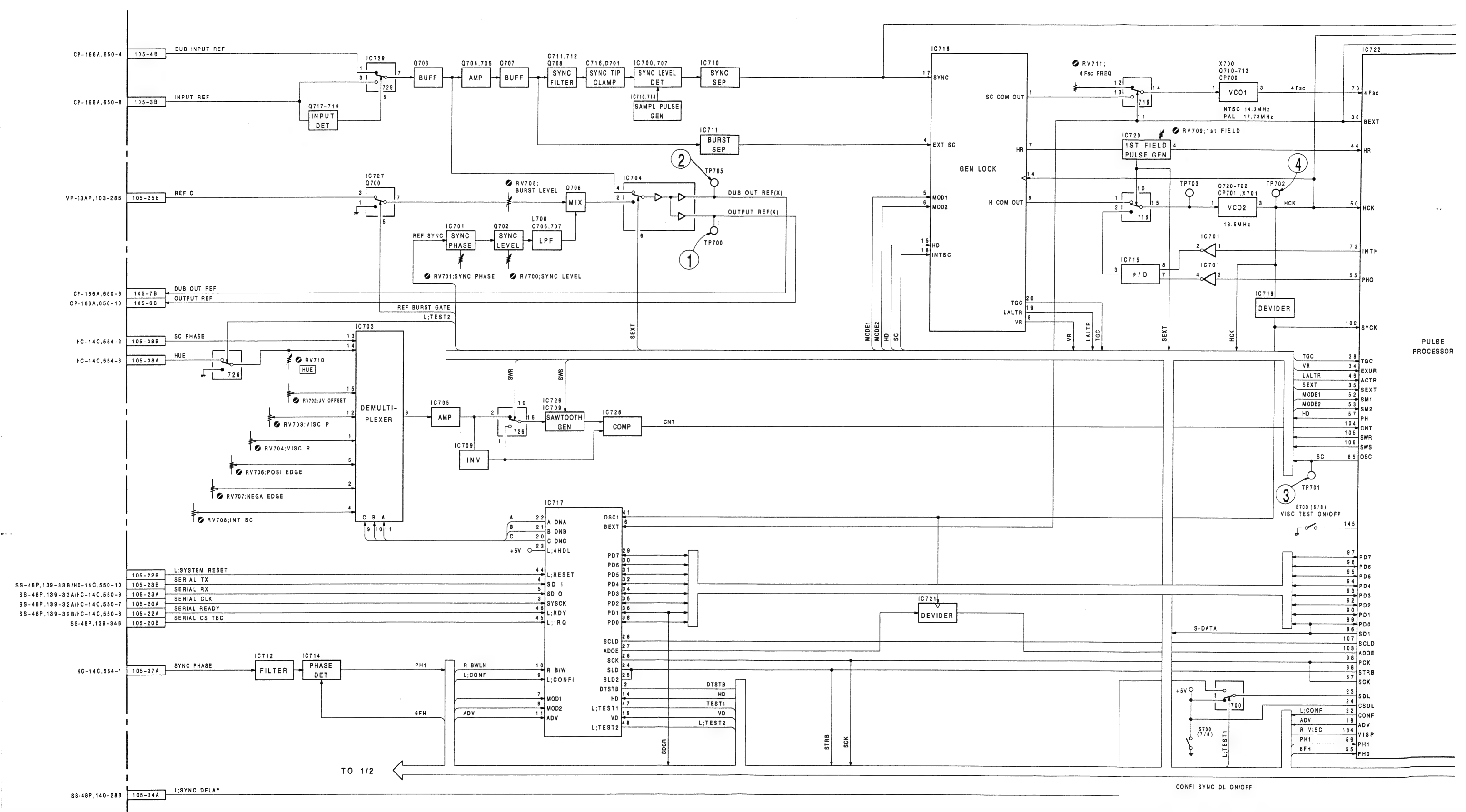


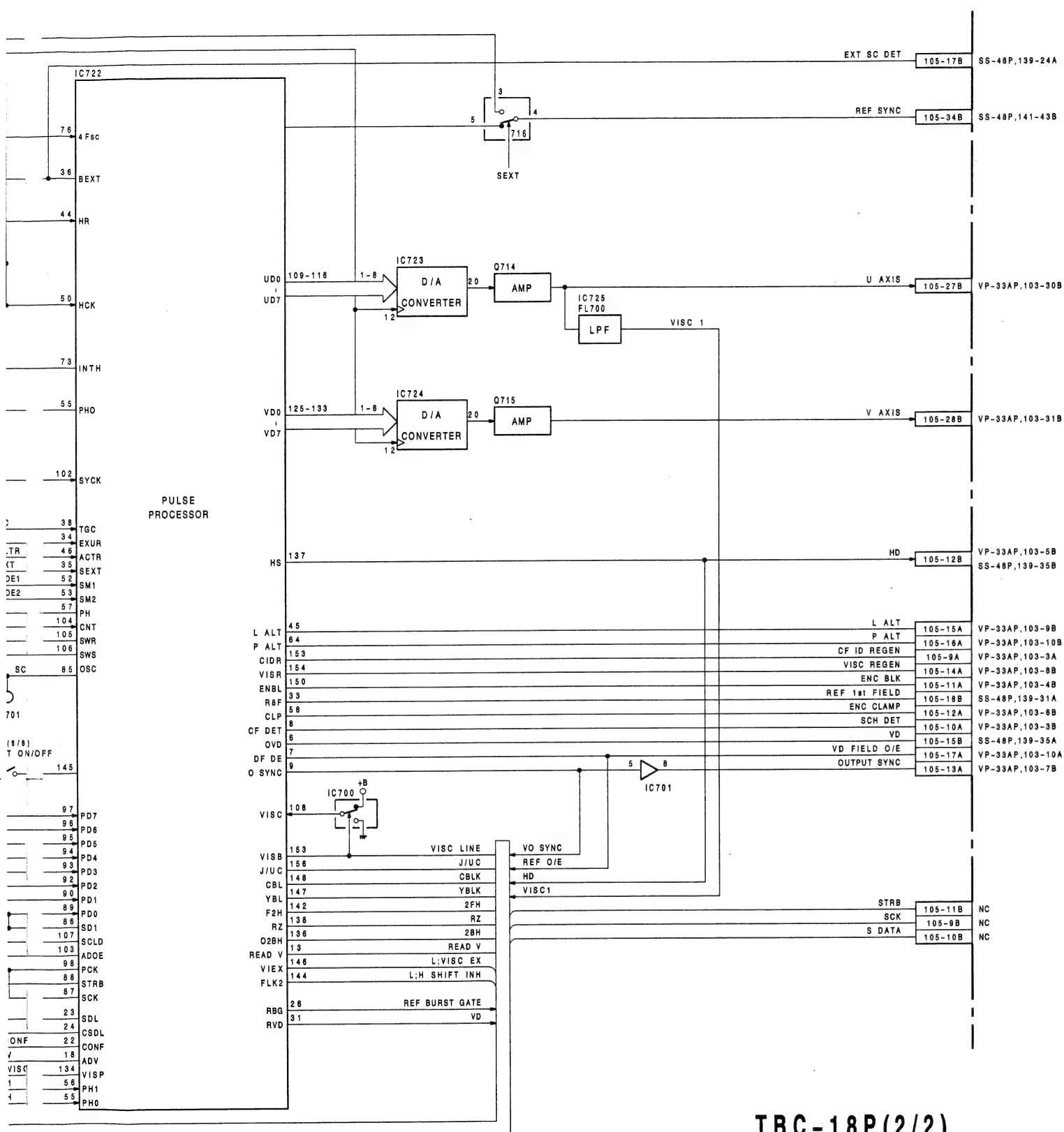
TIME BASE CORRECTOR,CTDM(EXPAND)





TIME BASE CORRECTOR

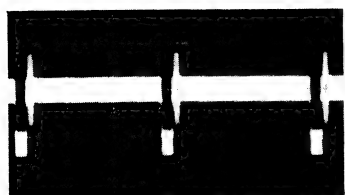




TBC-18P(2/2)

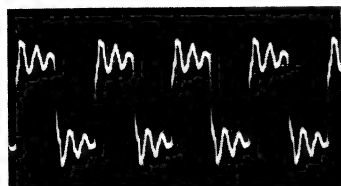
PVW-2600P

- ① TP 700
② TP 705
PB



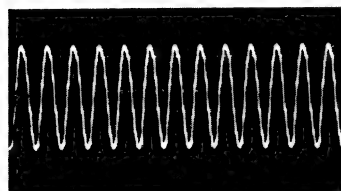
V : 500 mV/div
H : 20 μs/div

- ③ TP 701
PB



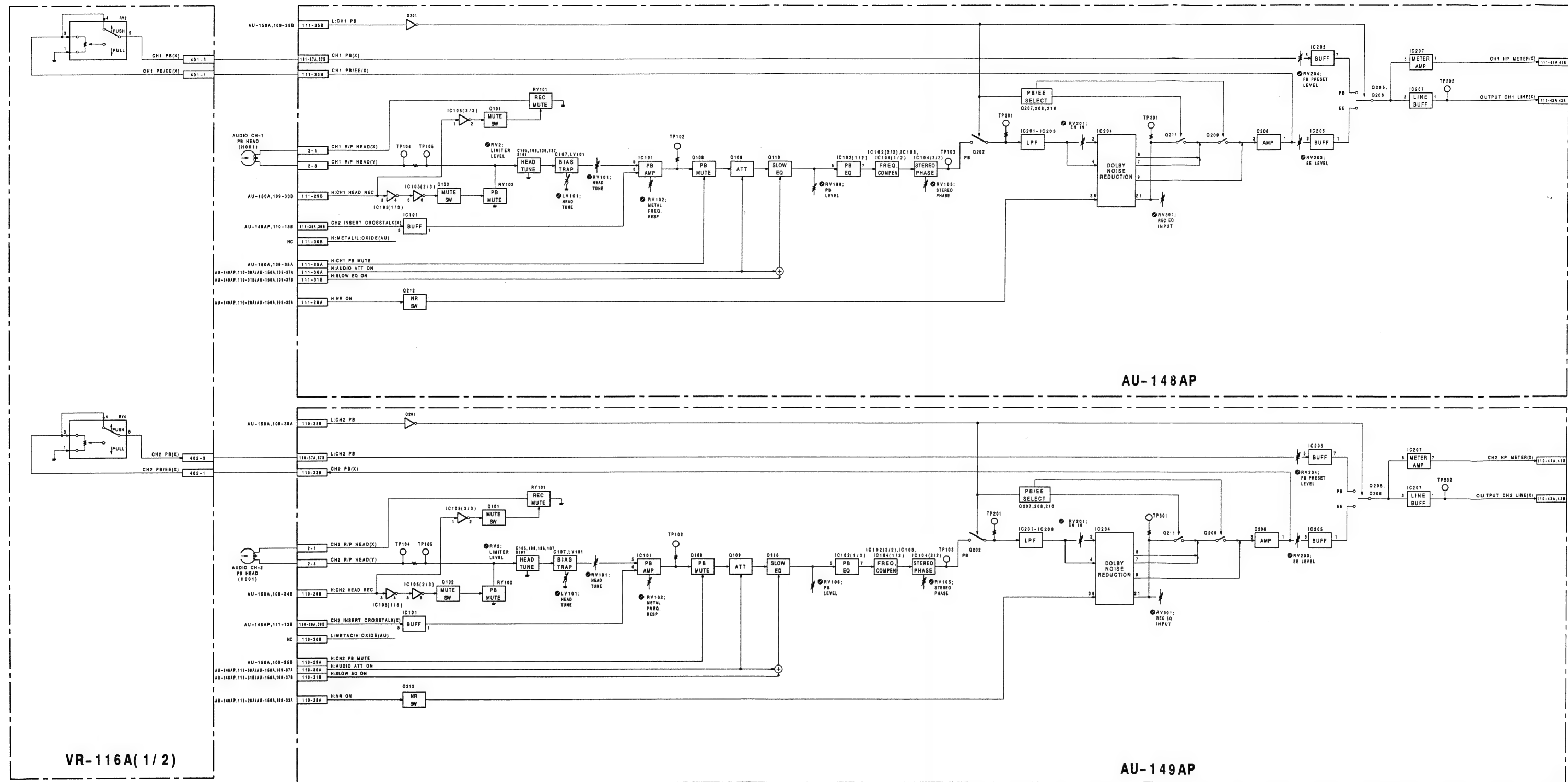
V : 2 V/div
H : 100 ns/div

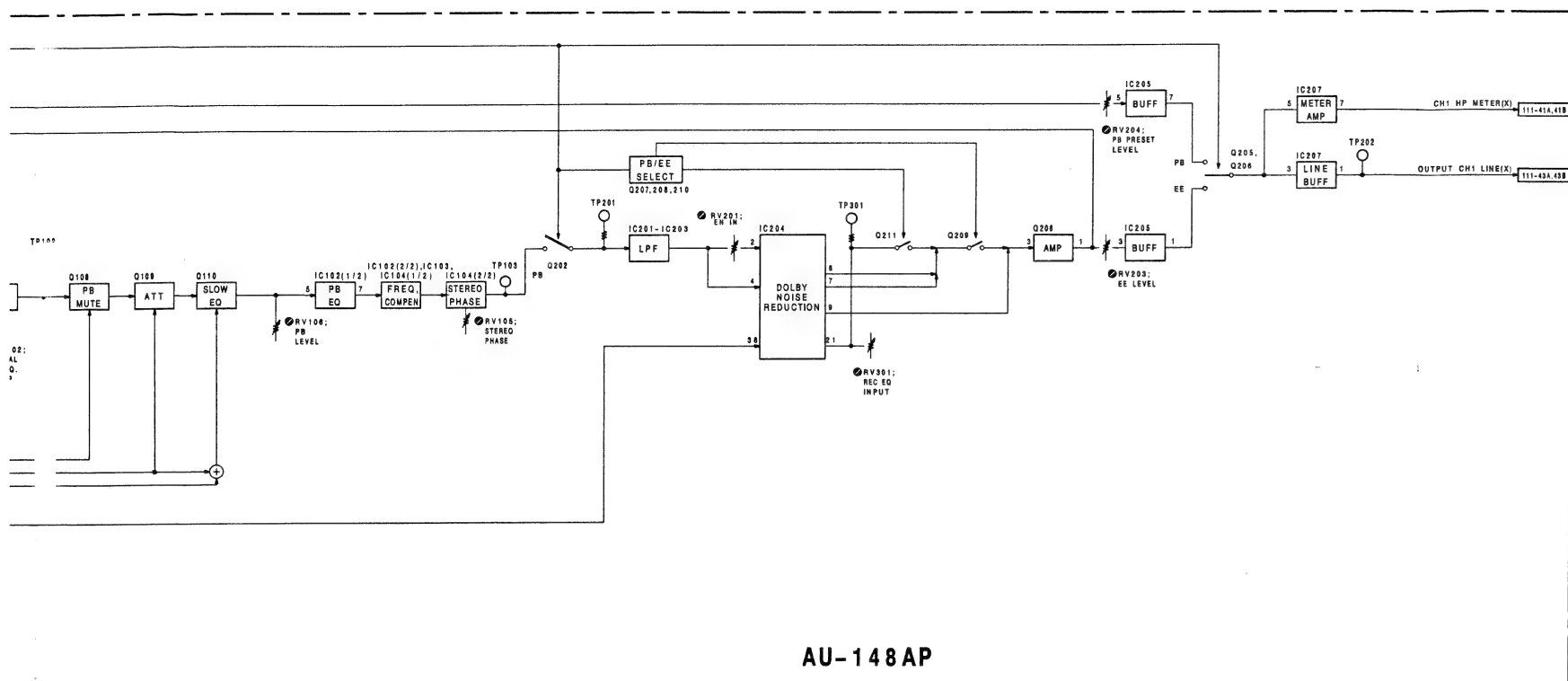
- ④ TP 702
PB



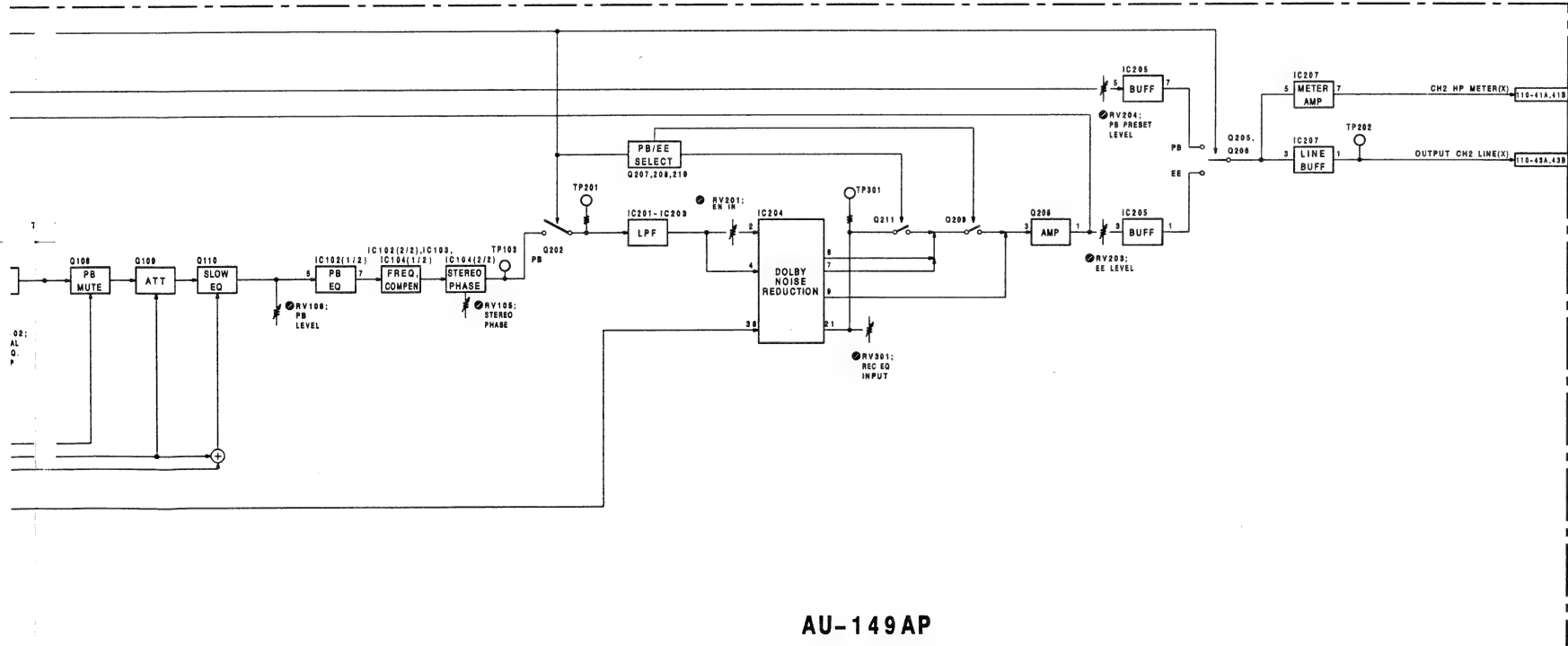
V : 2 V/div
H : 100 ns/div

AUDIO CH-1/CH-2 PB PROCESS,DOLBY SYSTEM,OUT DRIVER,METER DRIVER

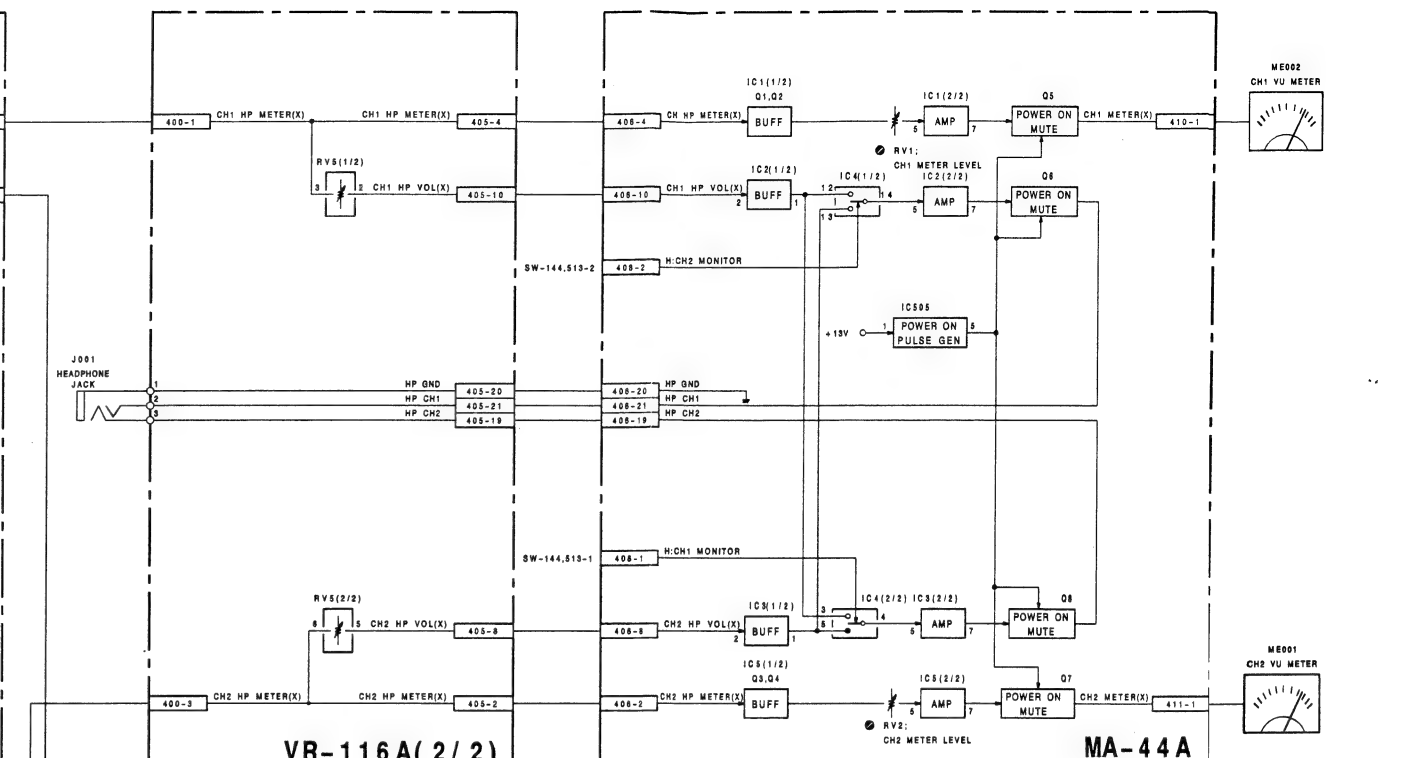




AU-148 AP

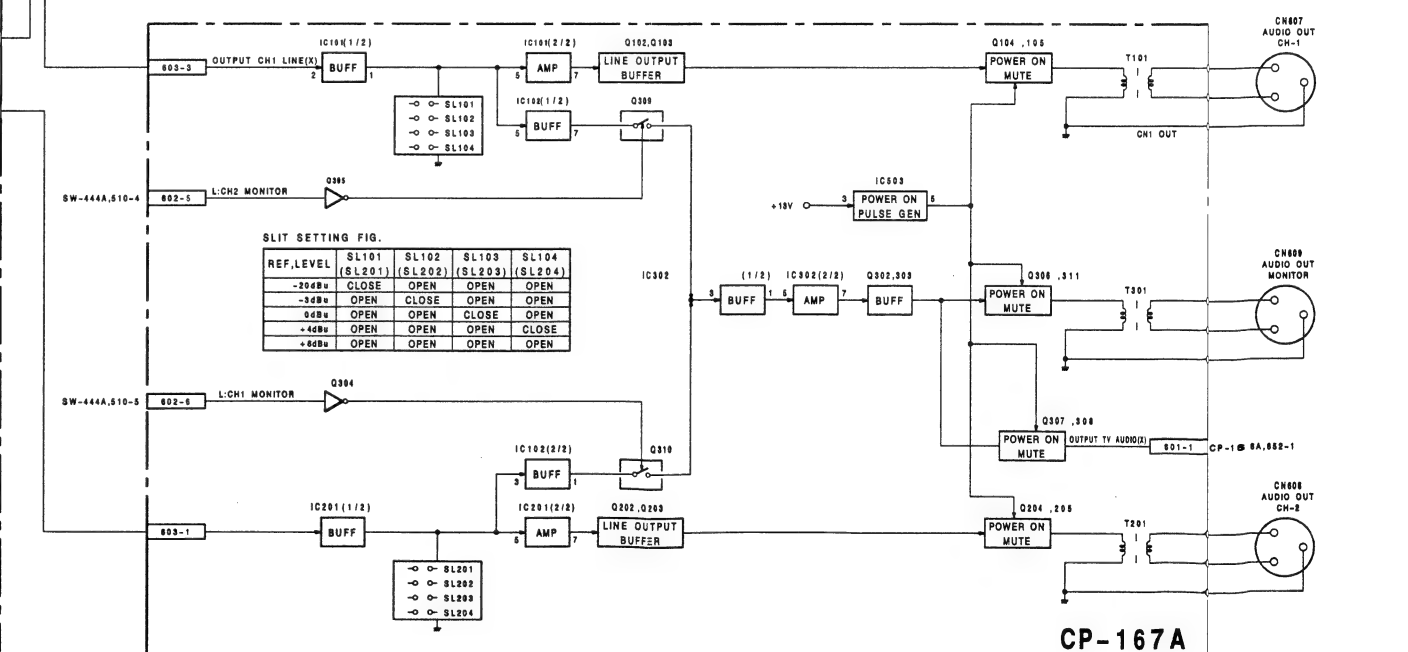


AU-149 AP



VR-116A (2/2)

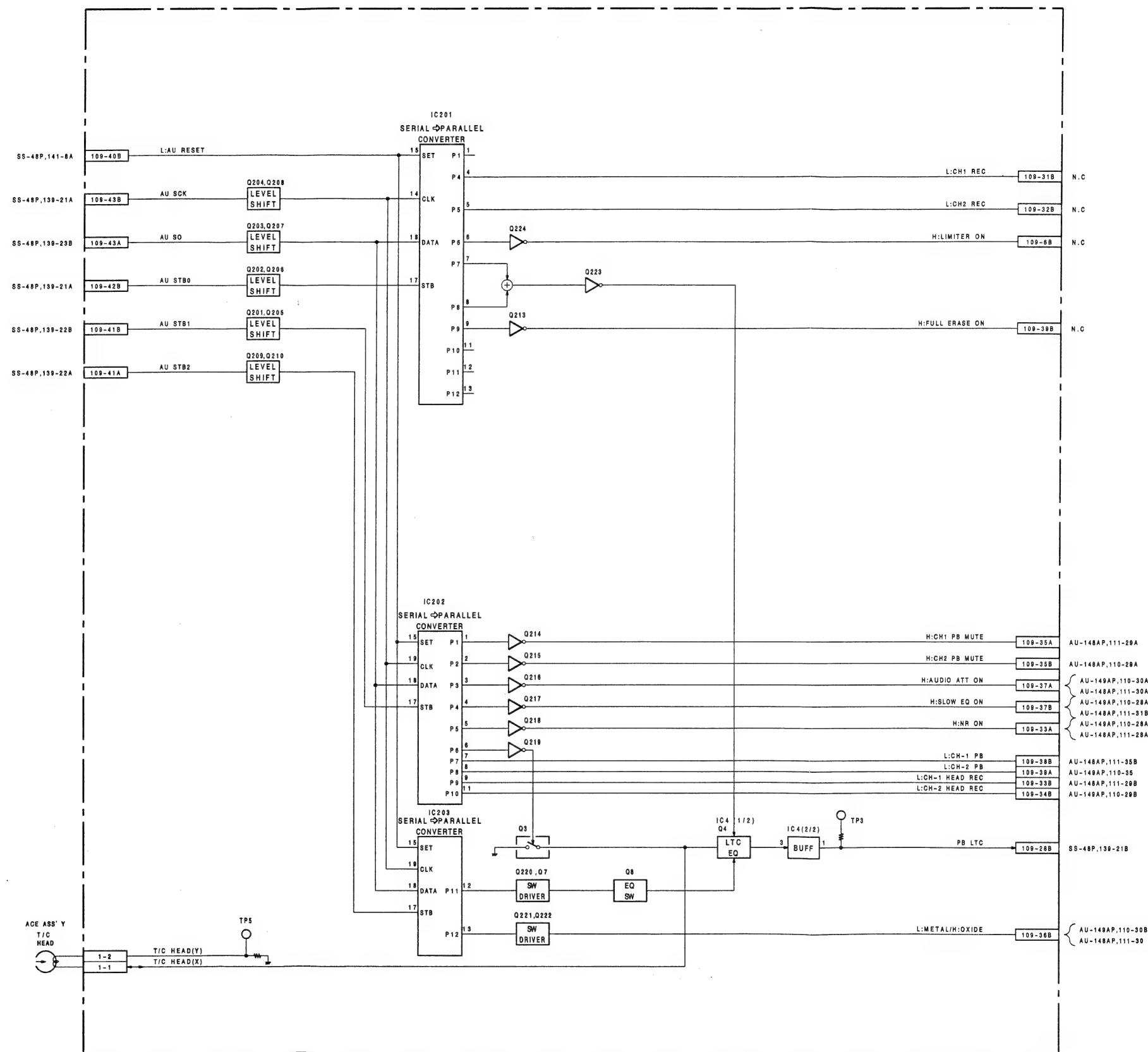
MA-44 A

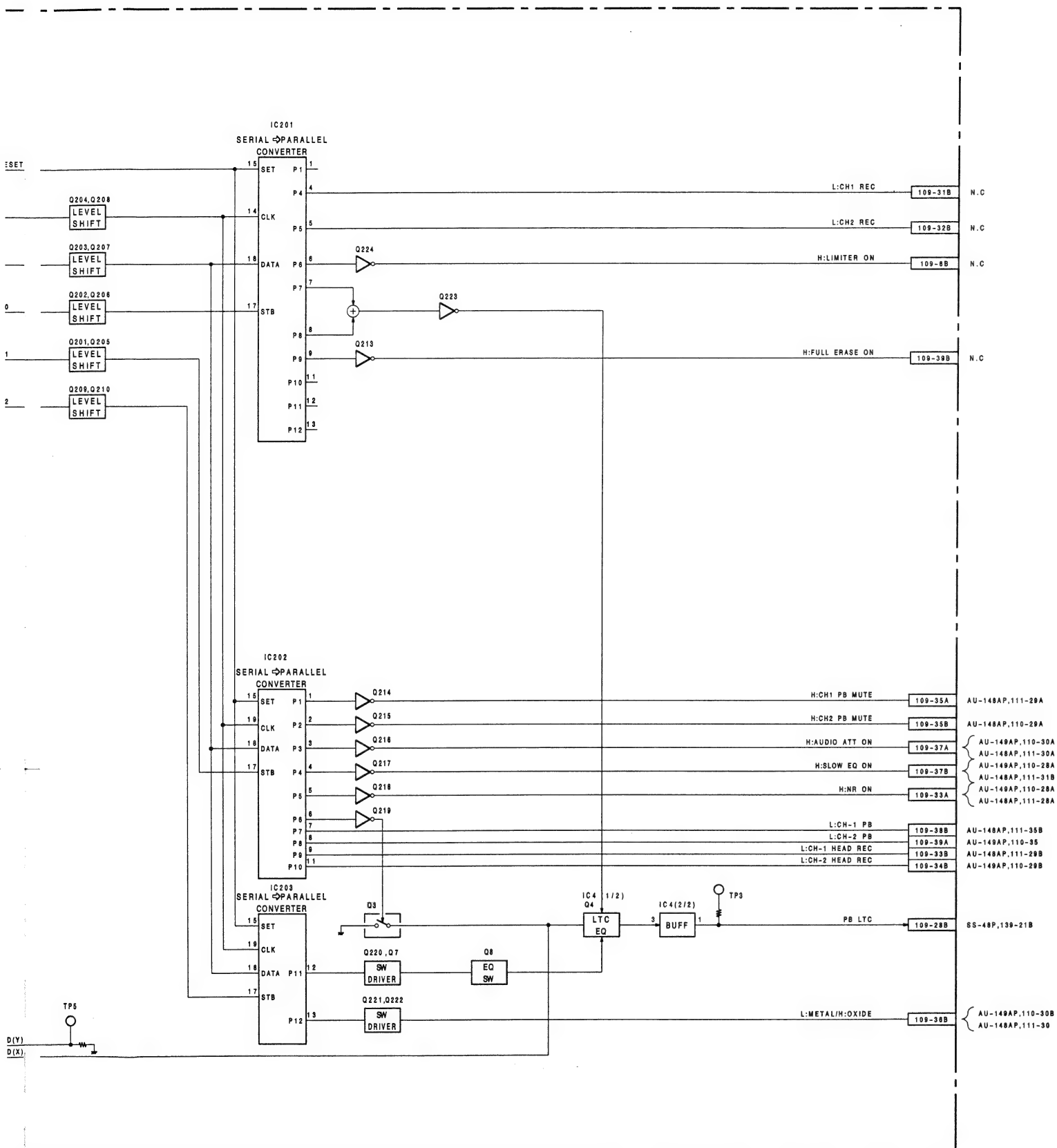


CP-167 A

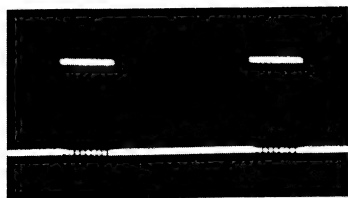
AU-148AP/149AP
PVW-2600P

AUDIO MODE CONTROL,LTC PB



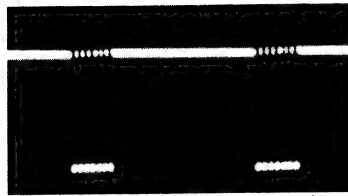


① TP 104
EE/PB



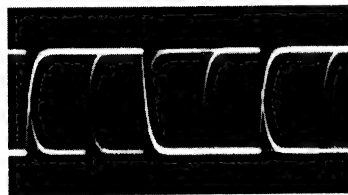
V: 2 V/div
H: 5 ms/div

② TP 105
EE/PB



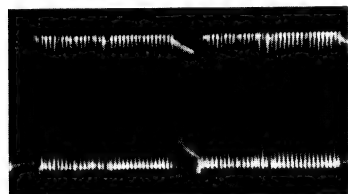
V: 2 V/div
H: 5 ms/div

③ TP 404
EE/PB



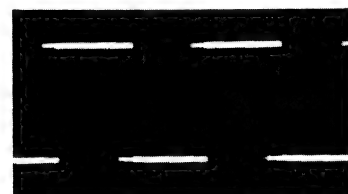
V: 1 V/div
H: 200 μ s/div

④ TP 408
EE/PB



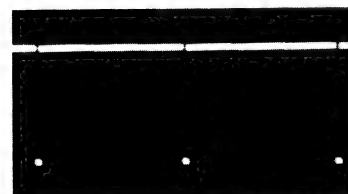
V: 2 V/div
H: 10 ms/div

⑤ TP 501
EE/PB



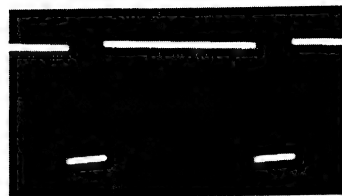
V: 2 V/div
H: 20 μ s/div

⑥ TP 502
EE/PB



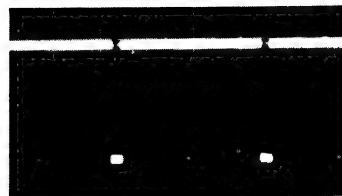
V: 2 V/div
H: 20 μ s/div

⑦ TP 503
EE/PB



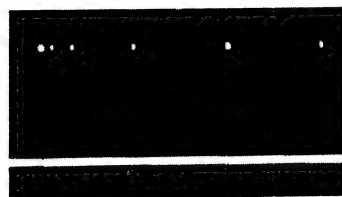
V: 2 V/div
H: 10 ms/div

⑧ TP 504
EE/PB



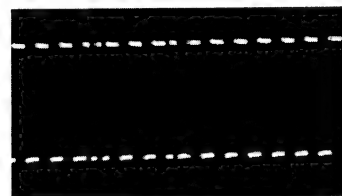
V: 2 V/div
H: 20 μ s/div

⑨ TP 507
EE/PB



V: 2 V/div
H: 2 ms/div

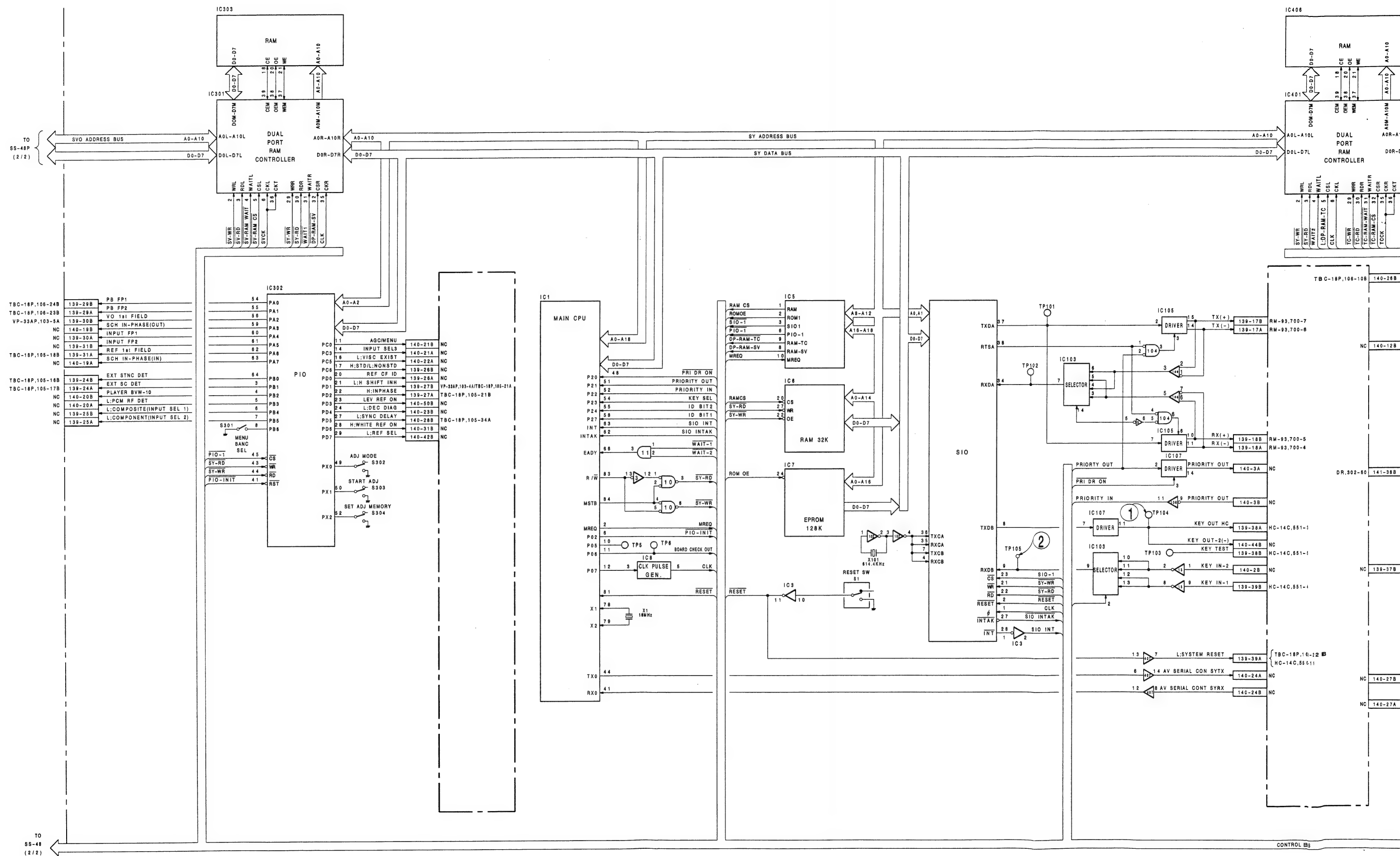
⑩ TP 509
PB

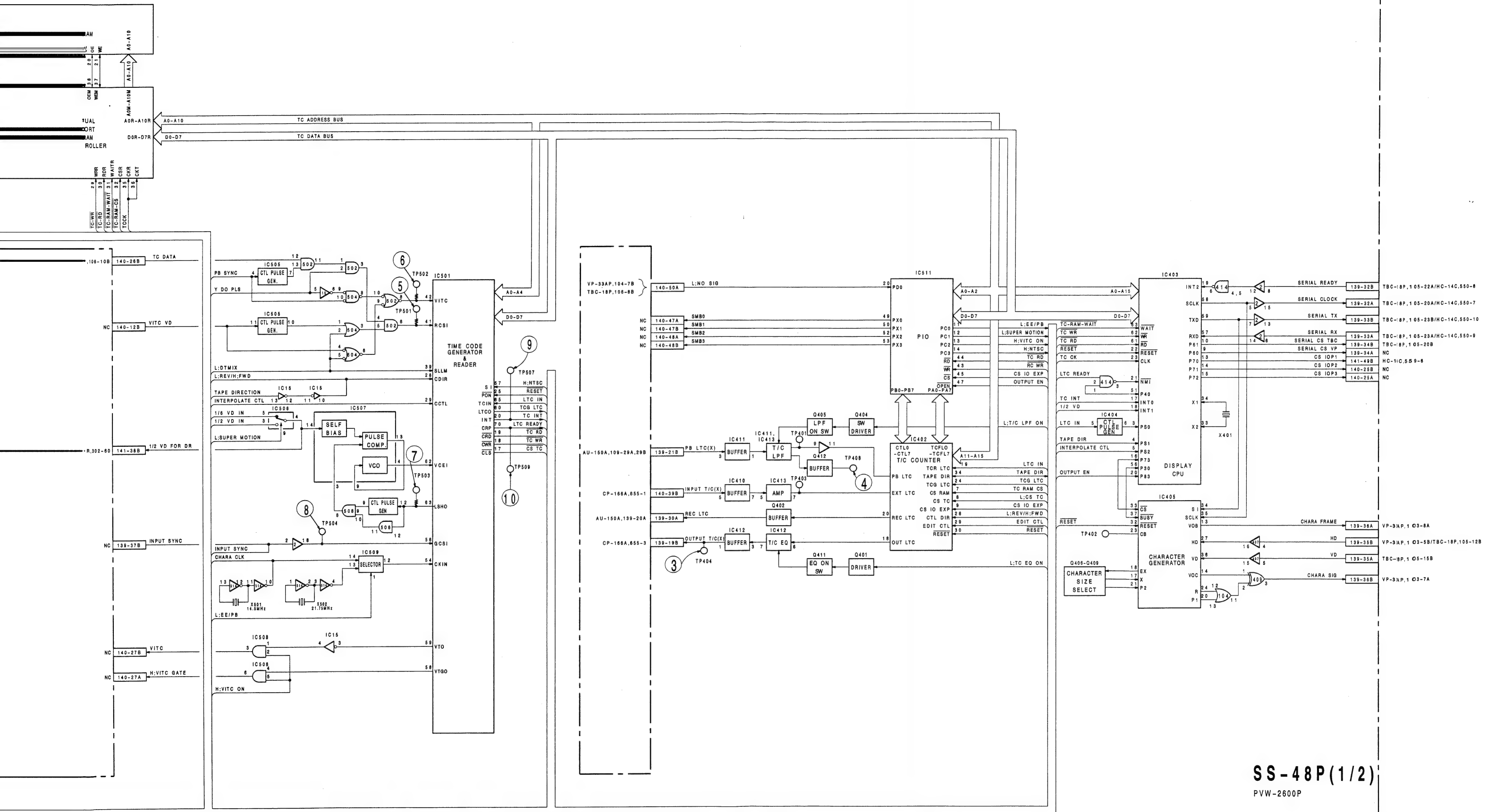


H: 2 ms/div

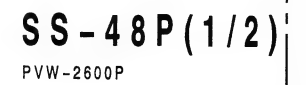
48 V p-p

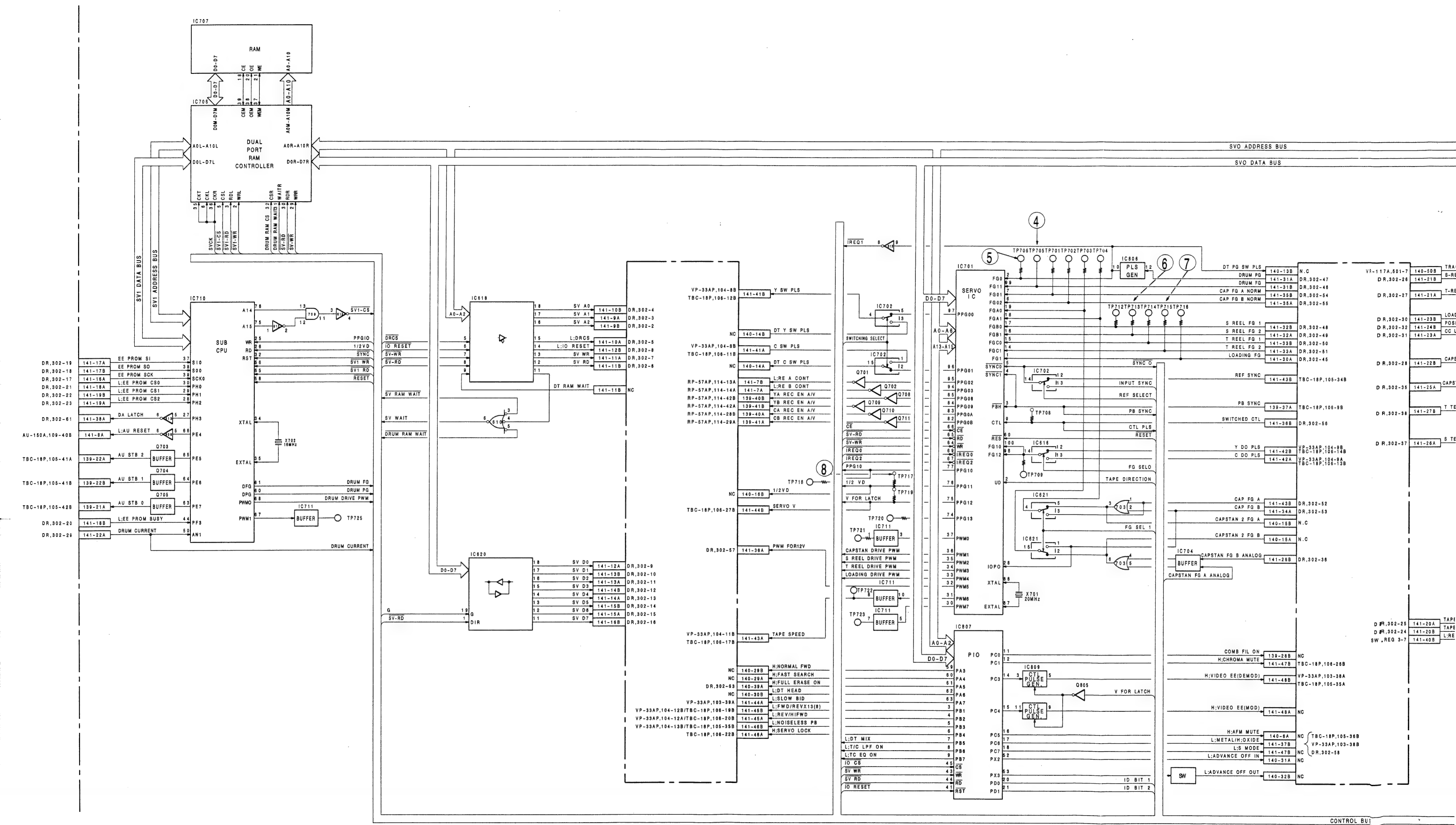
SYSTEM CONTROL(1)

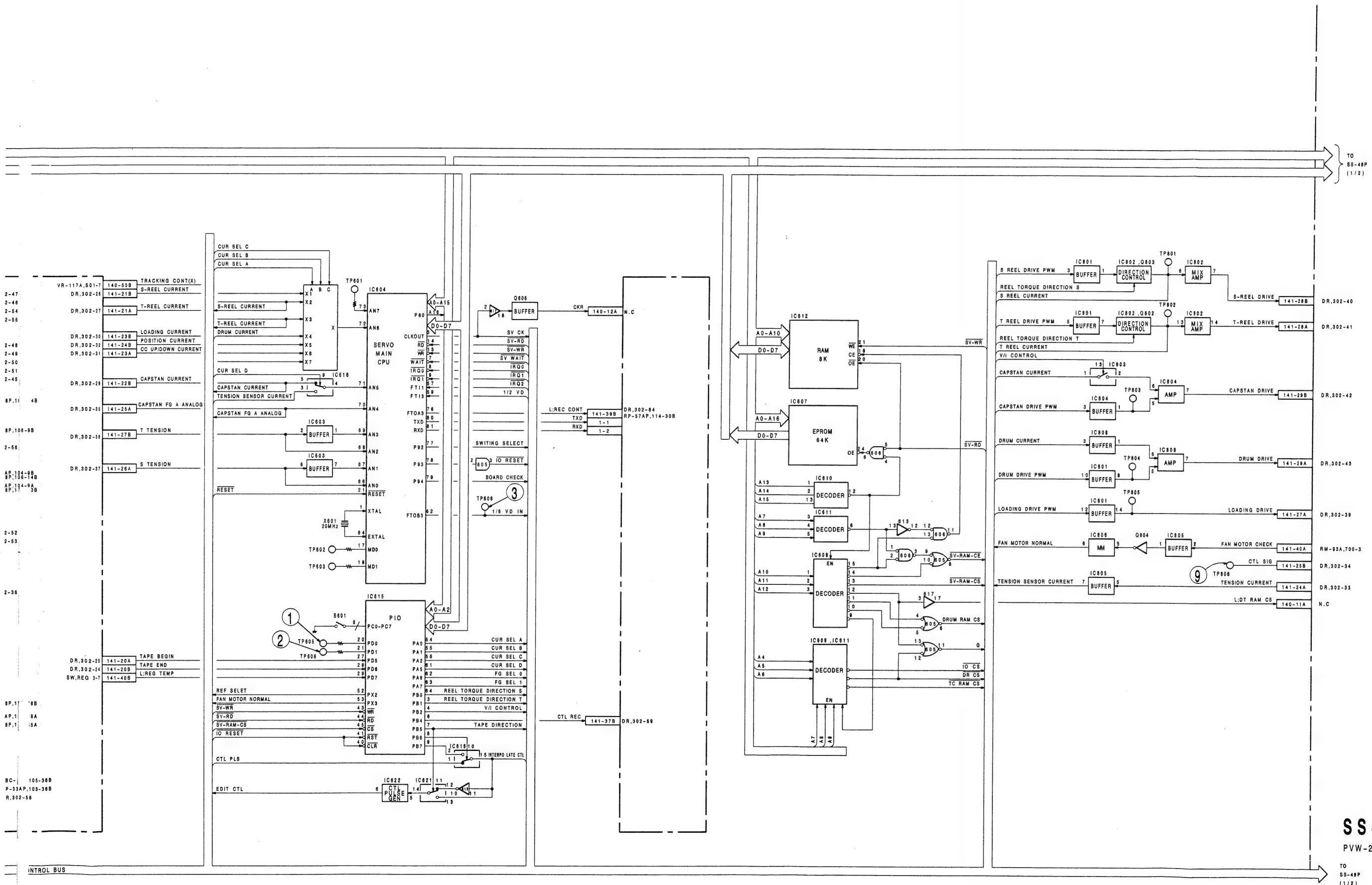




SYSTEM CONTROL(1) SYSTEM CONTROL(1)



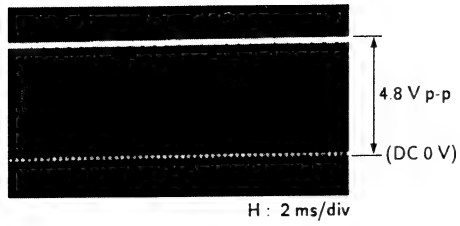




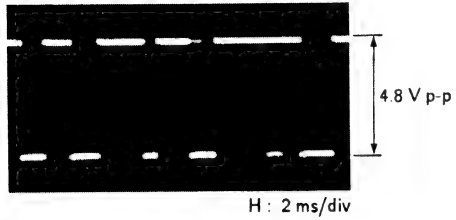
SS-48P(2/2)

PVW-2600P

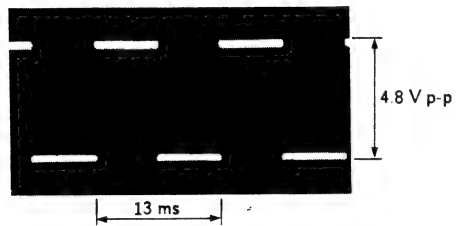
① TP 605
EE/PB



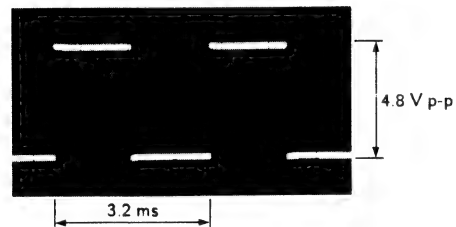
② TP 606
PB



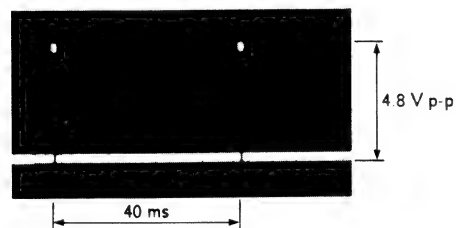
③ TP 607
EE/PB



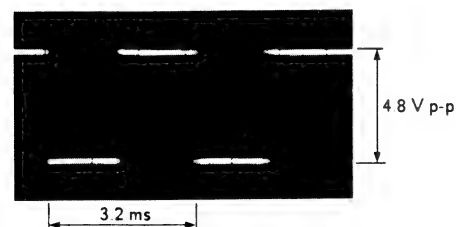
④ TP 705
EE/PB



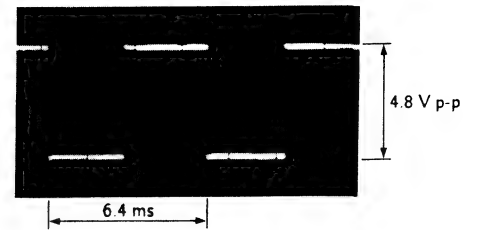
⑤ TP 706
EE/PB



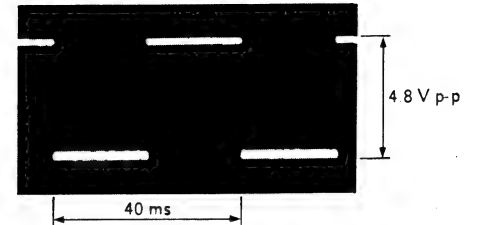
⑥ TP 713
PB



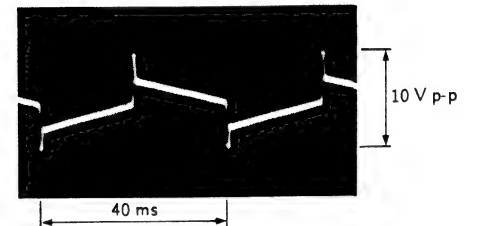
⑦ TP 715
PB



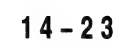
⑧ TP 717
EE/PB

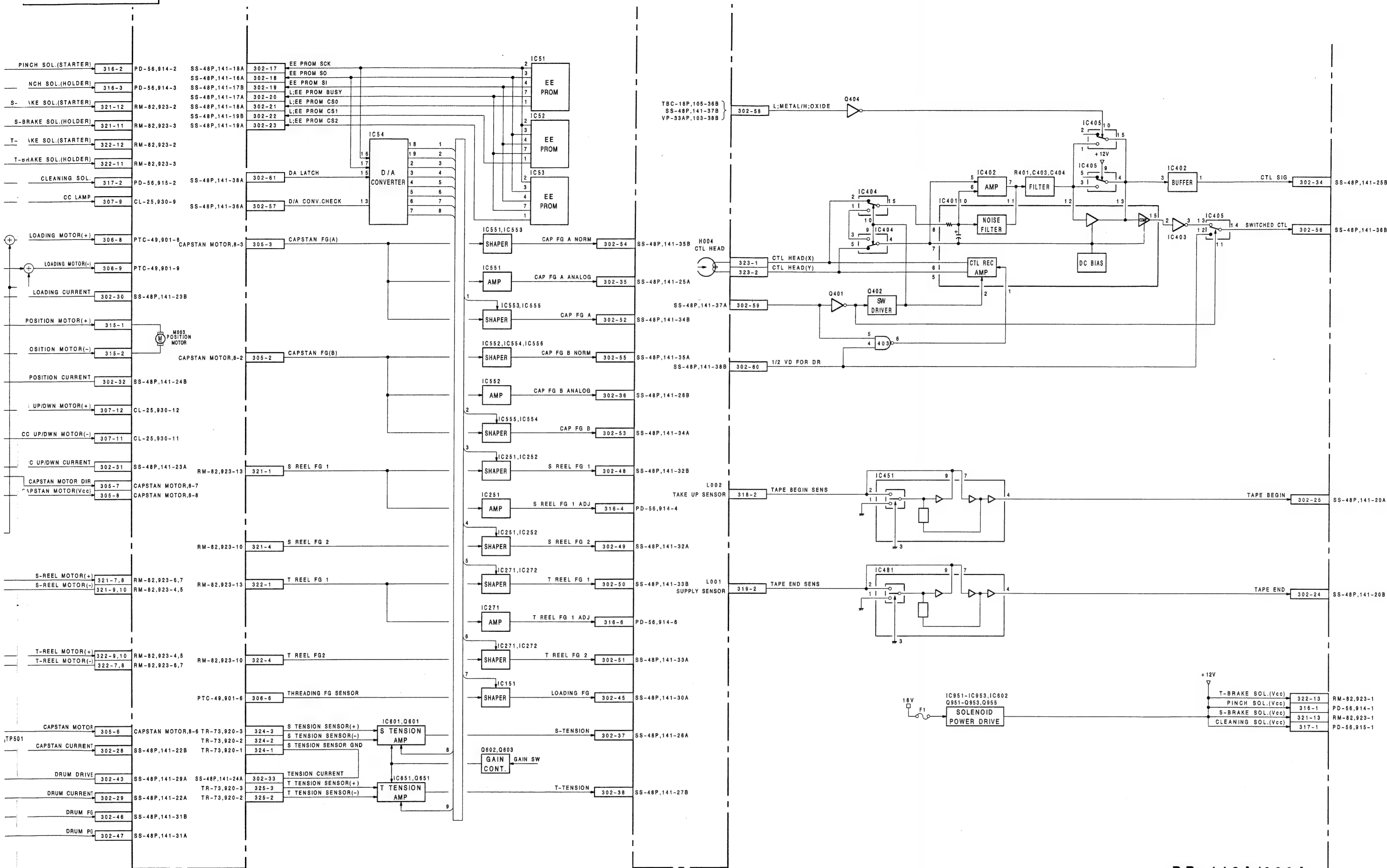


⑨ TP 806
PB



SERVO SERVO





DR-118A/232A
PVW-2600P

SECTION 15 BOARD LAYOUT

CIRCUIT CONFIGURATION

The circuit information is provided below.

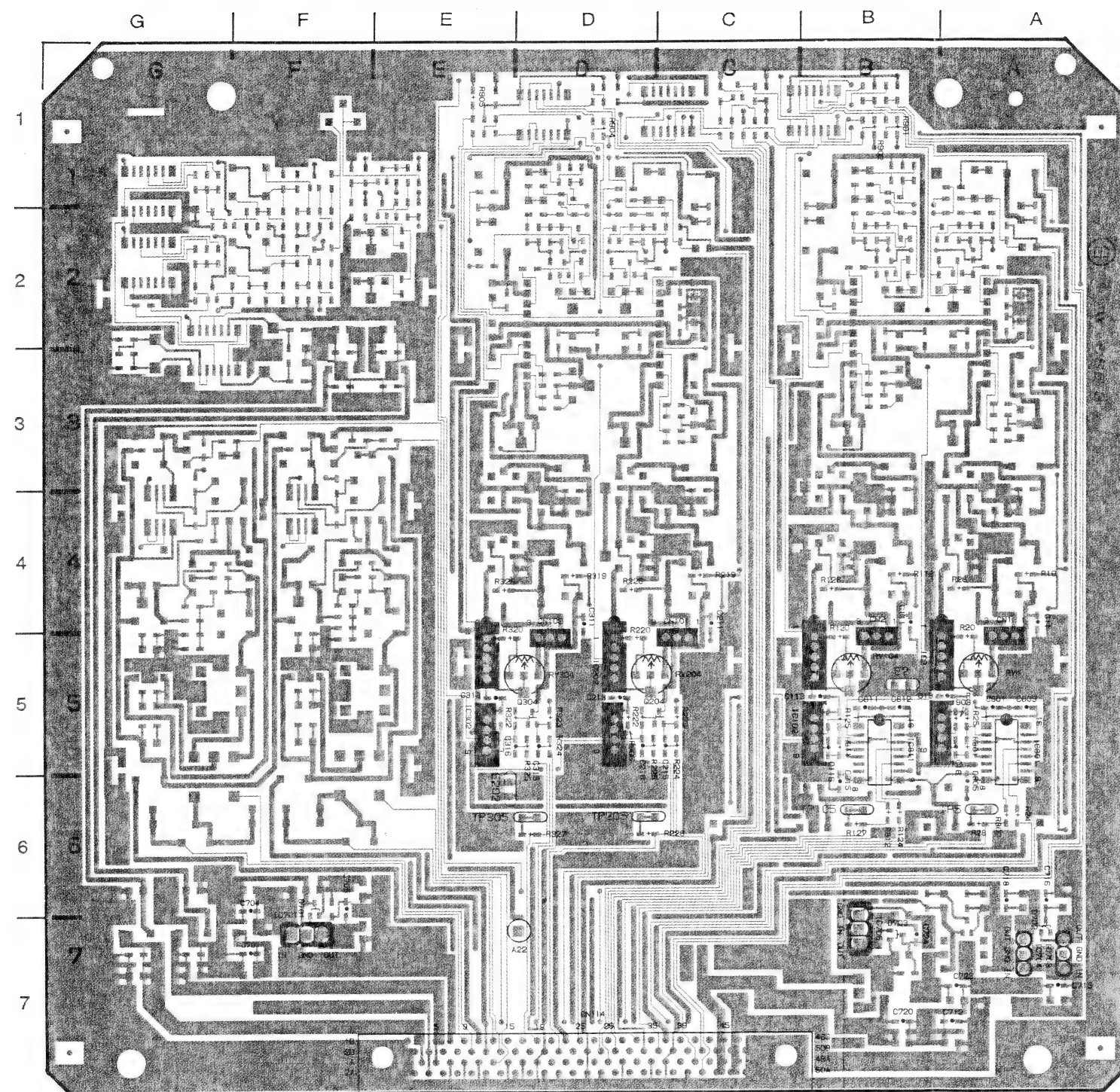
System	Board	Circuit Function
VIDEO	RP-57AP	RF PB Amplifier
	VP-33AP	Y/C PB Process (PB RF EQ, Demod., Encode, Y-RF Envelope DET), Composite Out Driver
	DO-29	Drop Out Detector
	TBC-18P	Time Base Corrector, CTDM (Expand)
	CP-166A	Output Connector, Component Out Driver
	VR-117A	Tracking Control
AUDIO	AU-148AP	CH-1 PB Process, Dolby System
	AU-149AP	CH-2 PB Process, Dolby System
	AU-150A	Mode Control, LTC PB
	CP-167A	Output Connector, Line Out Driver
	DP-138A	Audio Level Meter Back Light
	VR-116A	PB Level Control, Headphone Volume Control
	MA-44A	Meter Driver, Headphone Amplifier
SERVO/ SYSTEM CONTROL/ TIME CODE	SS-48P	System Control, Servo System Main, Time Code Reader, Character Generator
	KY-210A	Keyboard
	DP-139A	Time Code Display
	DR-118A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG Amplifier, CTL PB, Adjust Data Storage
	DR-232A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG Amplifier, CTL PB, Adjust Data Storage
	CL-25	Cassette Compartment (Cassette Loading Begin/Near-end Sensor, LP-57 Connection Cassette Loading Motor)
	DE-15	Reel FG
	DS-31	Condensation Sensor
	HC-14C	Sub-control Panel
	PC-62	Cassette In/Large Cassette Sensor
	PD-56	Pinch/Cleaning Solenoid Connection, Reel FG Check
	PTC-39	Search Dial
	PTC-42	Cassette Size Sensor
	PTC-49	Threading Motor
	PTC-54	Threading FG
	PTC-55	Cassette Information Sensor (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
	RM-82	Reel Motor
	RM-93A	TBC/9P Remote Connector
	* SE-186	Reel FG
	SW-444A	Select Switch, Indicator, RF/Video Level Meter
	TR-73	S/T Tension Sensor
OTHERS	AC-133	AC Line Filter, Fuse
	DP-159A	RF/Video Meter Back Light
	LP-57	Cassette Illumination
	MB-322A/322D	Mother Board
	SOPS1019A	Switching Regulator
	SOPS1019B	Switching Regulator
	SOPS1019C	Switching Regulator

* SE-186 Board : As to serial No. (EK) 15836 and higher, (uc) 10011 and higher the board has been changed from DE-15 to SE-186.

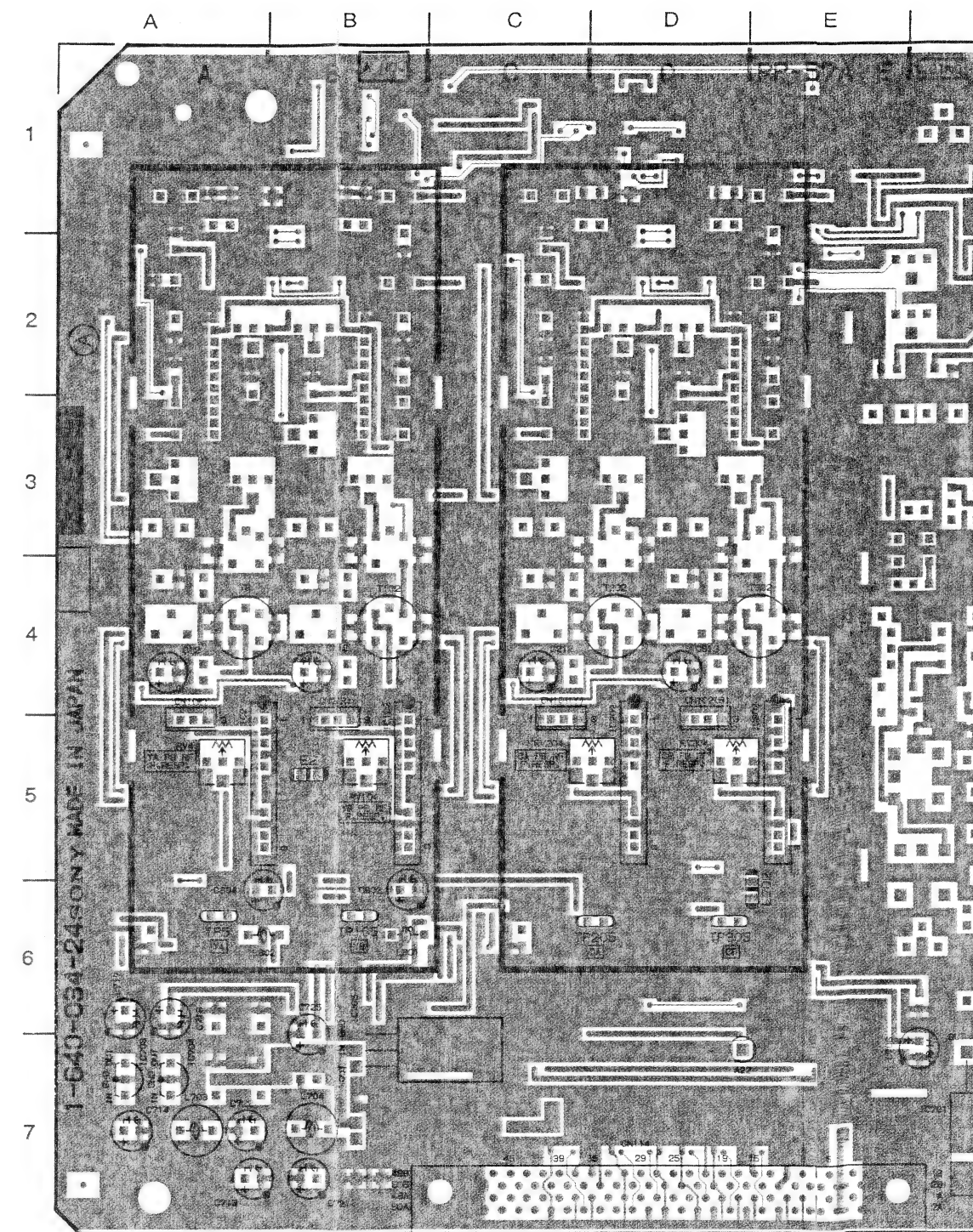
	Board	Page
A	AC-133	15-20
	AU-148AP	15-8
	AU-149AP	15-9
	AU-150A	15-10
C	CL-25	15-20
	CP-166A	15-7
	CP-167A	15-11
D	DE-15	15-20
	DO-29	15-4
	DP-138A	15-12
	DP-139A	15-15
	DP-159A	15-21
	DR-118A	15-16
	DR-232A	15-17
	DS-31	15-20
	DUS-668	15-4
H	HC-14AC	15-18
K	KY-210A	15-15
L	LP-57	15-20
M	MA-44A	15-12
	MB-322A/322D	15-22
P	PC-62	15-20
	PD-56	15-20
	PTC-39	15-15
	PTC-42	15-20
	PTC-49	15-20
	PTC-54	15-20
	PTC-55	15-20
R	RM-82	15-20
	RM-93A	15-21
	RP-57AP	15-2
S	SE-186	15-20
	SOPS1019A	15-24
	SOPS1019B	15-24
	SOPS1019C	15-24
	SS-48P	15-13
	SW-444A	15-19
T	TBC-18P	15-5
	TR-73	15-20
V	VP-33AP	15-3
	VR-116A	15-12
	VR-117A	15-21

Serial No.(EK);12491 and higher
Serial No.(UC);10001 and higher

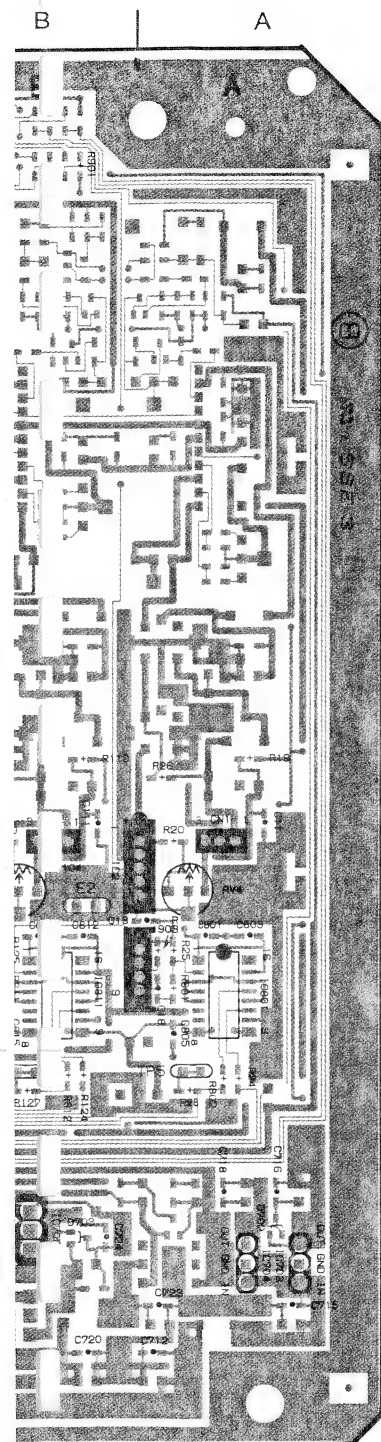
RP-57AP ; RM PB AMPLIFIER



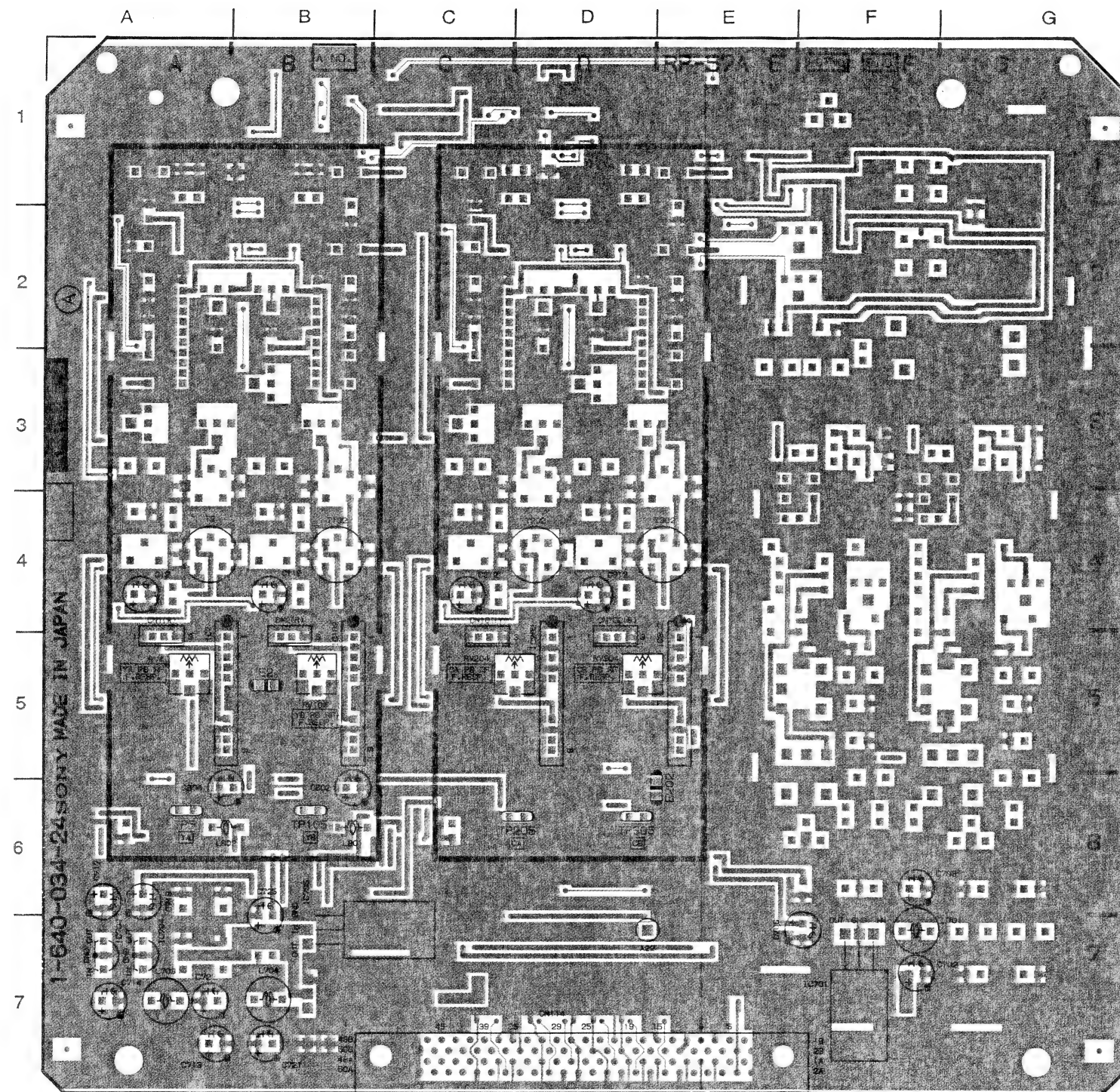
RP-57AP 1-640-034-24 B SIDE



RP



P-57AP 1-640-034-24 B SIDE



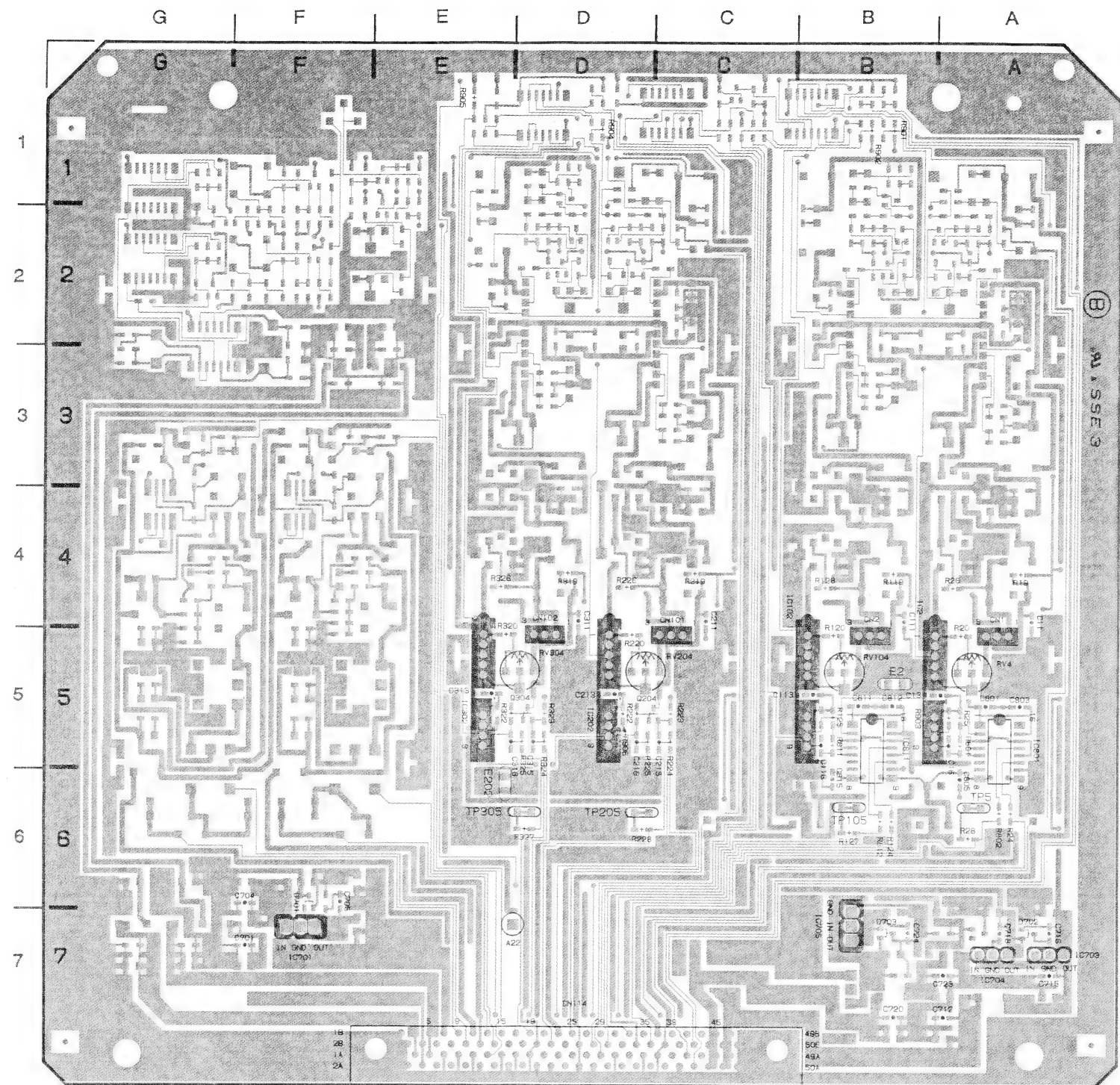
RP-57AP 1-640-034-24 A SIDE

CN 1	A-5
CN 2	B-5
CN 101	C-5
CN 102	D-5
CN 114	D-7
* D 701	F-6
* D 702	A-7
* D 703	B-7
E 2	B-5
E 202	E-6
IC 2	A-5
IC 102	B-5
IC 202	D-5
IC 302	E-5
IC 701	F-7
IC 703	A-7
IC 704	A-7
IC 705	B-7
* IC 801	A-5
* IC 811	B-5
L 701	F-7
L 703	A-7
L 704	B-7
L 801	B-6
L 802	A-6
* Q 204	C-5
* Q 304	D-5
RV 4	A-5
RV 104	B-5
RV 204	D-5
RV 304	D-5
TP 5	A-6
TP 105	B-6
TP 205	D-6
TP 305	D-6
T 2	A-4
T 102	B-4
T 302	E-4
*: B SIDE	

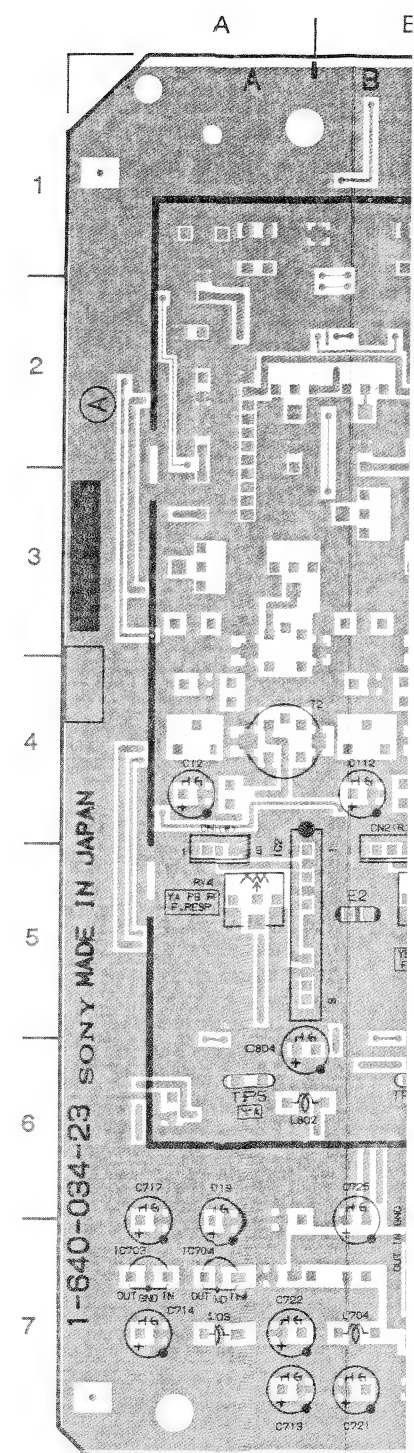
Serial No.(EK); 10651 to 12490

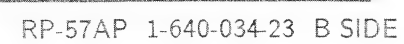
RP-57P ; RF PB AMPLIFIER

- | | |
|-----------|-----|
| CN 1 | A-5 |
| CN 2 | B-5 |
| CN 101 | C-5 |
| CN 102 | D-5 |
| CN 114 | D-7 |
| | |
| * D 701 | F-6 |
| * D 702 | A-7 |
| * D 703 | B-7 |
| | |
| E 2 | B-5 |
| E 202 | E-6 |
| | |
| IC 2 | A-5 |
| IC 102 | B-5 |
| IC 202 | D-5 |
| IC 302 | E-5 |
| IC 701 | F-7 |
| IC 703 | A-7 |
| IC 704 | A-7 |
| IC 705 | B-7 |
| * IC 801 | A-5 |
| * IC 811 | B-5 |
| | |
| L 701 | F-7 |
| L 703 | A-7 |
| L 704 | B-7 |
| L 801 | B-6 |
| L 802 | A-6 |
| | |
| * Q 204 | C-5 |
| * Q 304 | D-5 |
| | |
| RV 4 | A-5 |
| RV 104 | B-5 |
| RV 204 | D-5 |
| RV 304 | D-5 |
| | |
| TP 5 | A-6 |
| TP 105 | B-6 |
| TP 205 | D-6 |
| TP 305 | D-6 |
| | |
| T 2 | A-4 |
| T 102 | B-4 |
| T 202 | D-4 |
| T 302 | E-4 |
| | |
| *: B SIDE | |



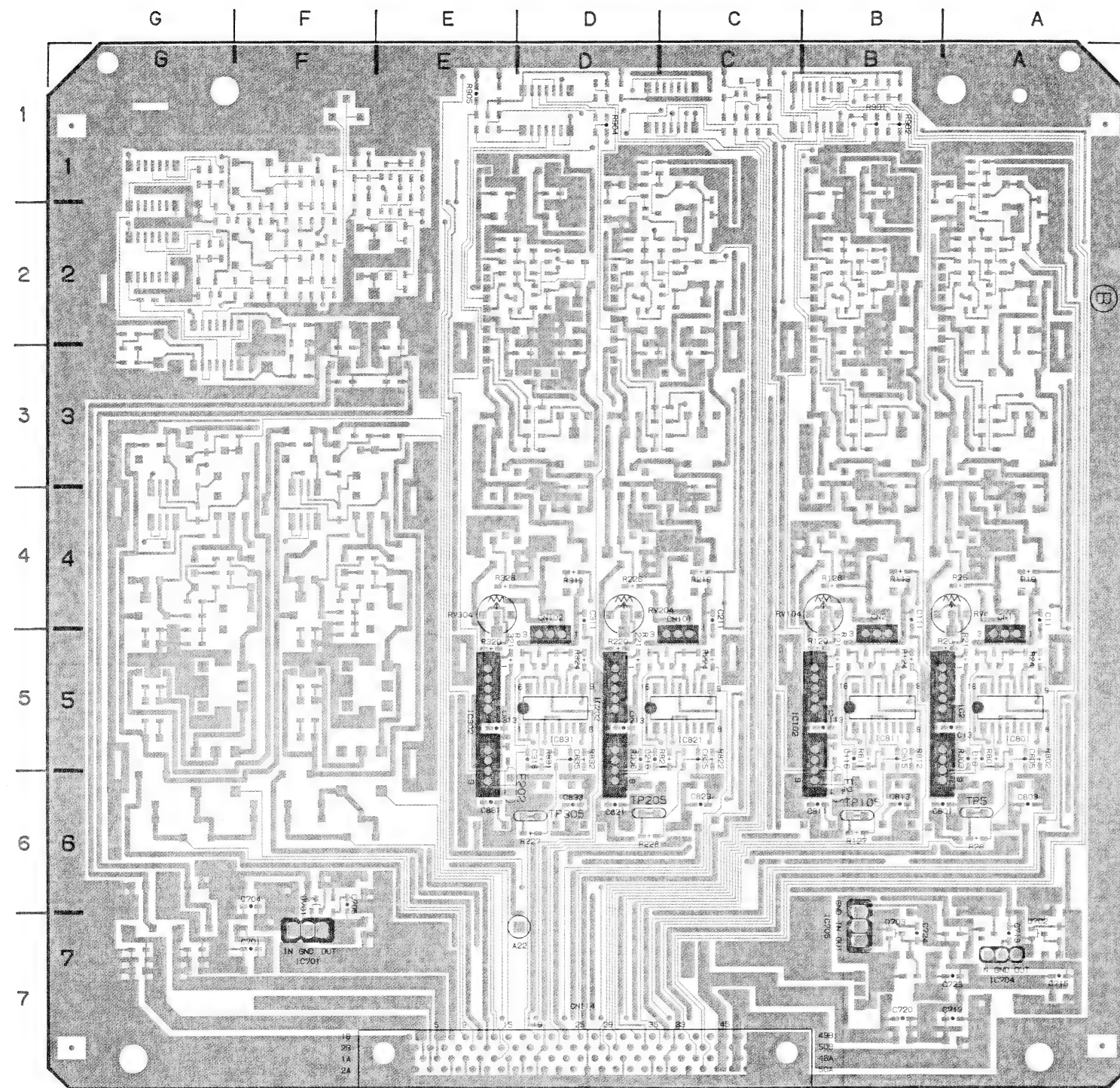
RP-57AP 1-640-034-23 B SIDE



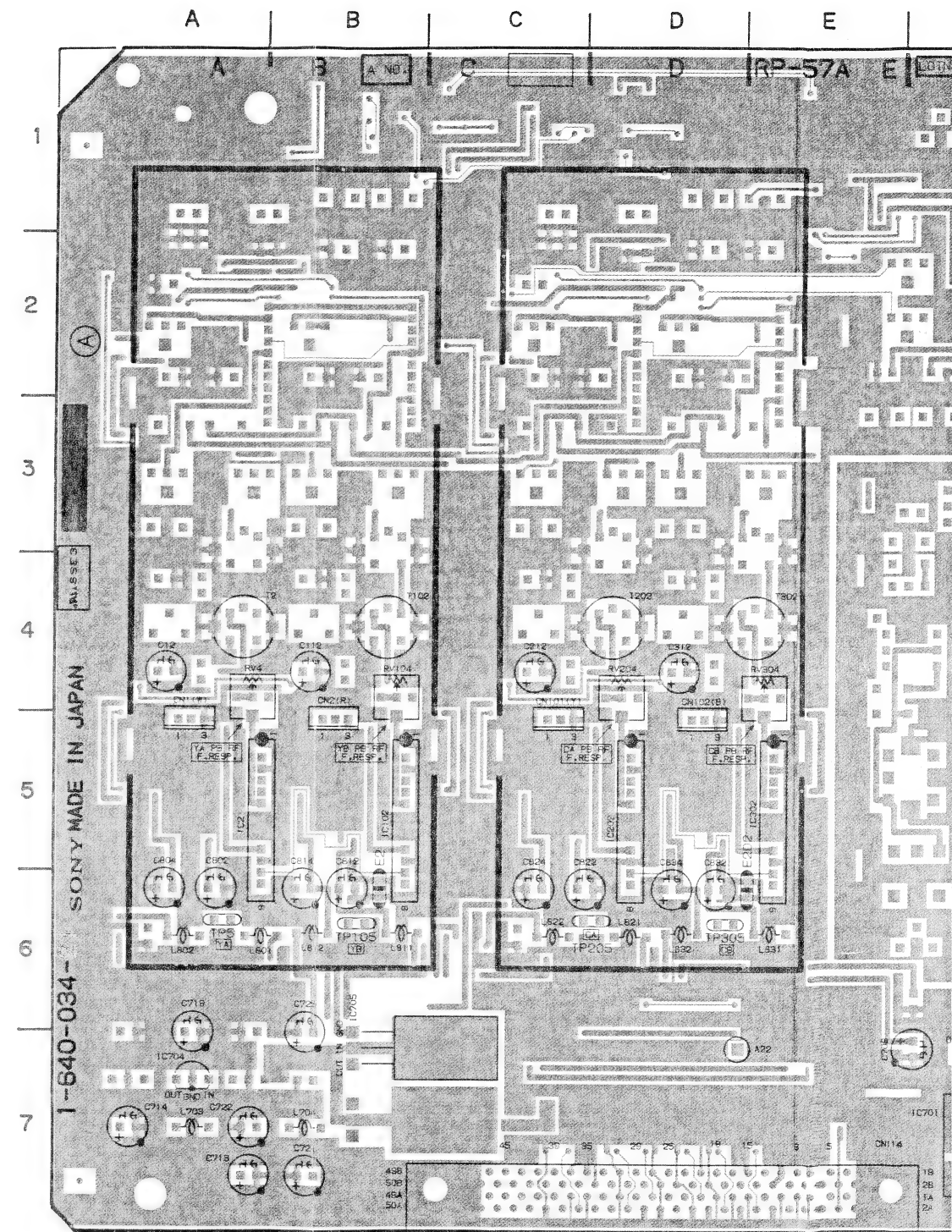


Serial No.(EK); 10001 to 10650

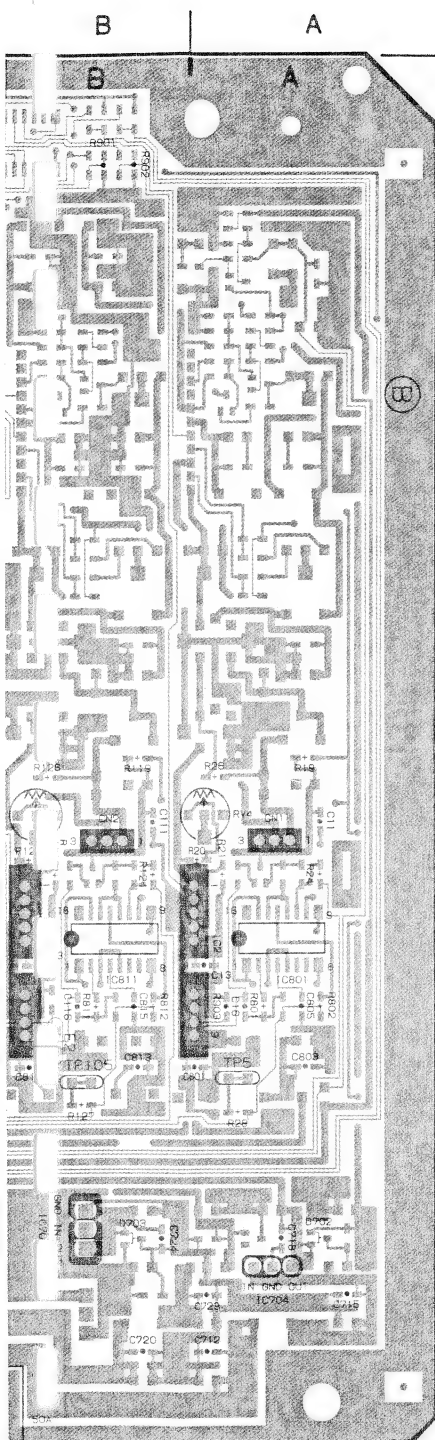
RP-57AP ; RF PB AMPLIFIER



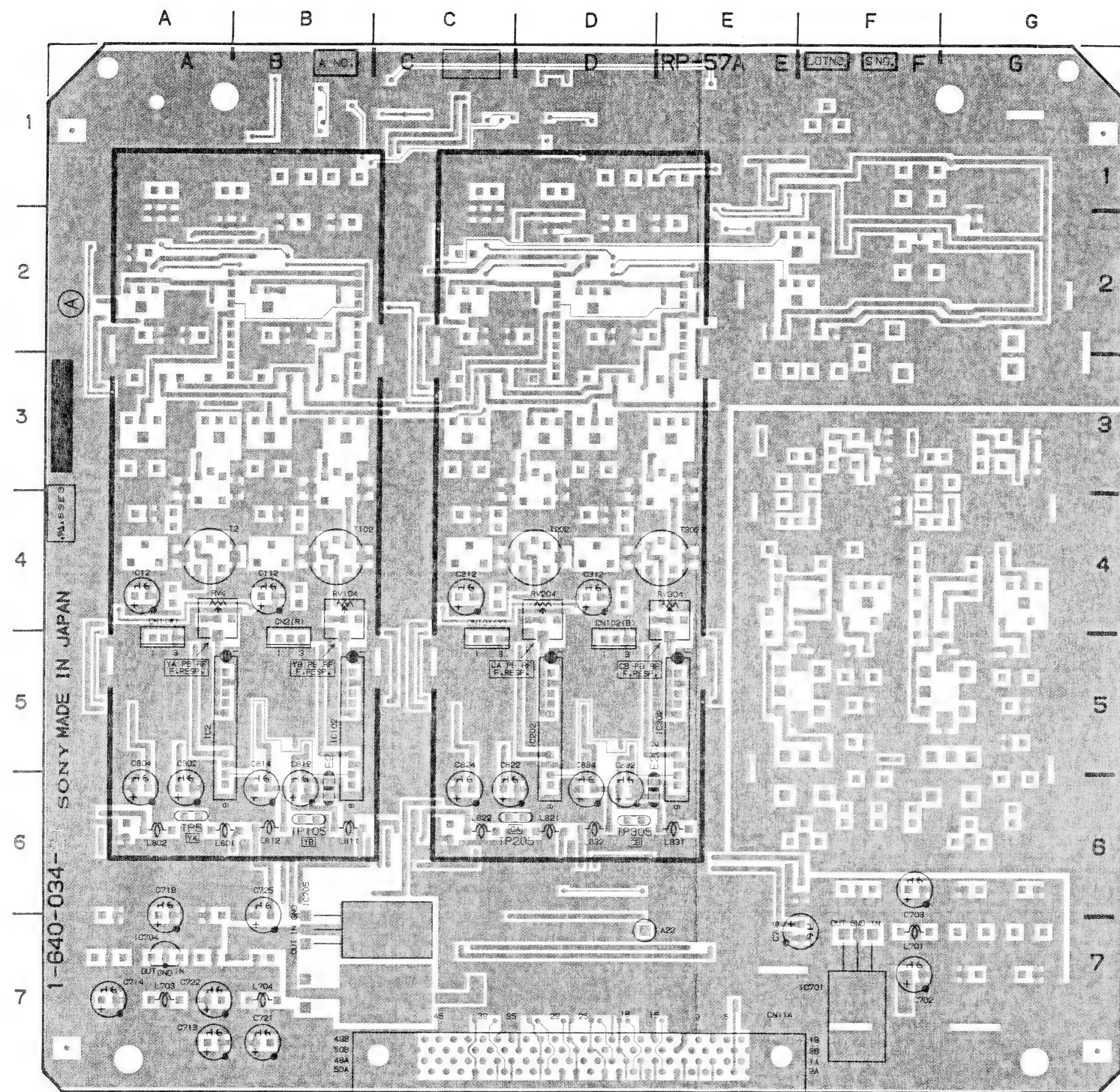
RP-57AP 1-640-034-21,22 B SIDE



RP.



RP-57AP 1-640-034-21,22 B SIDE



RP-57AP 1-640-034-21,22 A SIDE

CN 1	A-4
CN 2	B-4
CN 101	D-4
CN 102	D-4
CN 114	D-7
* D 701	F-6
* D 702	A-6
* D 703	B-6
E 2	B-5
E 202	E-5
IC 2	B-4
IC 102	C-4
IC 202	D-4
IC 302	E-4
IC 701	F-6
IC 703	A-6
IC 704	A-6
IC 705	B-6
L 701	F-7
L 703	A-7
L 704	B-7
* Q 4	A-5
* Q 104	B-5
* Q 204	C-5
* Q 304	D-5
RV 4	B-4
RV 104	C-4
RV 204	D-4
RV 304	E-4
TP 5	A-5
TP 105	B-5
TP 205	D-5
TP 305	E-5
T 2	B-4
T 102	B-4
T 202	D-4
T 302	E-4

* : B SIDE

Serial No. (EK); 12951 and higher
Serial No. (UC); 10001 and higher

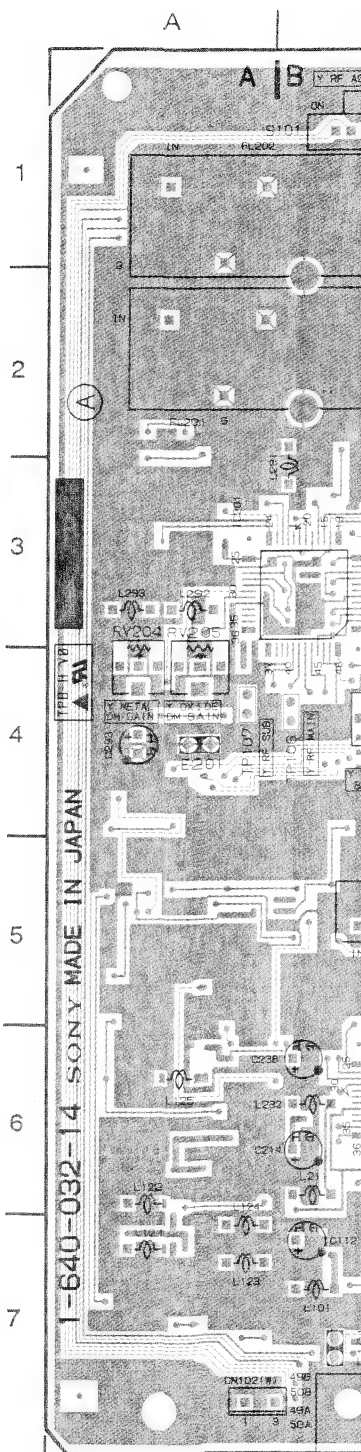
VP-33AP VP-33AP

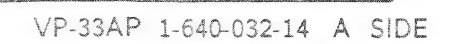
VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

VP-33AP (1-640-032-14)

CN 101	D-1	IC 204	C-2	L 351	D-3	*Q 151	A-5	*Q 462	E-4	*Q 743	L-5	RV 504	E-4
CN 102	A-7	IC 205	D-3	L 352	D-2	*Q 161	A-5	*Q 463	E-5	*Q 746	L-6	RV 505	E-3
CN 103	N-7	IC 206	C-2	L 401	F-6	*Q 162	A-5	*Q 464	F-5	*Q 747	L-6	RV 506	G-4
CN 104	C-7	IC 401	F-5	L 421	E-6	*Q 163	A-5	*Q 465	F-5	*Q 748	L-6	RV 701	M-2
CN 201	C-7	IC 402	H-5	L 422	E-6	*Q 164	B-5	*Q 466	F-5	*Q 749	K-6	RV 703	M-5
CN 202	D-3	IC 403	G-6	L 423	F-6	*Q 165	B-5	*Q 467	F-5	*Q 750	K-6	RV 704	N-5
CN 203	C-1	IC 404	G-6	L 424	F-6	*Q 167	B-5	*Q 468	F-5	*Q 751	K-7	RV 705	N-5
CN 204	C-7	IC 501	F-3	L 425	E-5	*Q 168	B-5	*Q 501	G-7	*Q 752	K-5	RV 706	R-4
CN 205	D-1	IC 502	G-4	L 450	E-5	*Q 169	B-5	*Q 504	E-4	*Q 753	K-3	RV 707	R-4
CN 401	F-1	IC 504	G-2	L 451	E-6	*Q 181	A-4	*Q 505	E-3	*Q 754	K-3	RV 708	P-4
CN 402	E-7	IC 506	H-2	L 461	G-6	*Q 182	A-5	*Q 513	G-5	*Q 755	K-3	RV 709	P-5
CN 501	D-7	IC 605	H-3	L 462	H-6	*Q 183	A-5	*Q 514	H-5	*Q 756	K-2	RV 712	L-3
CN 502	H-3	IC 701	P-3	L 511	F-6	*Q 184	A-4	*Q 515	G-6	*Q 757	K-2	RV 713	J-4
CN 503	G-2	IC 702	R-3	L 512	G-5	*Q 185	A-5	*Q 541	G-7	*Q 758	K-3	RV 714	J-4
CN 504	C-7	IC 703	R-6	L 513	H-5	*Q 186	A-5	*Q 550	G-5	*Q 759	K-3	RV 715	K-4
CN 701	L-6	IC 704	M-6	L 531	G-5	*Q 187	B-4	*Q 552	G-5	*Q 760	K-3	RV 716	J-4
CN 702	N-2	IC 705	N-6	L 532	F-5	*Q 188	B-5	*Q 561	G-3	*Q 761	K-2	RV 718	M-2
CN 703	K-1	IC 706	N-6	L 561	G-3	*Q 189	B-5	*Q 562	G-3	*Q 762	K-2	RV 719	K-5
CN 704	M-7	IC 707	P-6	L 591	E-3	*Q 190	B-4	*Q 563	G-3	*Q 763	L-1	RV 720	L-5
CN 705	P-1	IC 708	P-4	L 594	H-4	*Q 191	B-5	*Q 564	G-3	*Q 764	L-1	RV 721	K-2
CN 801	R-3	IC 710	K-5	L 621	H-3	*Q 192	C-4	*Q 565	G-3	*Q 765	L-1	RV 722	K-2
DL 101	B-5	IC 711	K-5	L 622	J-3	*Q 193	C-4	*Q 566	G-3	*Q 766	L-2	RV 723	K-2
DL 401	F-4	IC 712	K-4	L 651	H-3	*Q 194	C-5	*Q 570	F-4	*Q 767	L-2	RV 724	K-2
		IC 713	L-3	L 652	J-2	*Q 201	C-7	*Q 591	F-3	*Q 768	N-1	RV 725	L-1
		IC 714	L-3	L 701	R-5	*Q 204	A-4	*Q 592	E-3	*Q 770	K-2	RV 726	L-1
*D 1	G-7	IC 715	K-4	L 702	P-5	*Q 205	A-4	*Q 621	E-3	*Q 771	K-2		
*D 201	B-2	IC 716	L-6	L 703	L-3	*Q 211	C-5	*Q 622	G-2	*Q 772	L-2	S 101	B-1
*D 501	F-3	IC 717	M-3	L 704	L-4	*Q 212	C-5	*Q 623	H-2	*Q 773	K-2	S 401	G-1
*D 502	H-2	IC 718	M-2	L 705	L-6	*Q 213	C-6	*Q 624	H-2	Q 1001	N-2	S 701	M-6
*D 701	P-3	IC 719	M-1	L 706	L-6	*Q 214	D-6	*Q 625	H-2	Q 1002	N-2	S 702	L-5
*D 702	N-4	IC 720	K-2	L 707	K-6	*Q 215	C-6	*Q 626	H-2	Q 1003	N-2	S 703	L-2
*D 703	L-2	IC 721	K-2	L 708	K-6	*Q 241	C-7	*Q 627	H-2	Q 1004	N-3		
*D 704	L-2	IC 722	N-1	L 709	K-3	*Q 250	B-6	*Q 628	H-2	Q 1005	N-3	TH 301	D-2
*D 705	N-3	IC 801	M-2	L 710	K-3	*Q 252	C-5	*Q 629	H-2	Q 2001	K-6	TH 601	H-3
*D 706	L-4	IC 901	N-3	L 711	P-4	*Q 261	B-3	*Q 651	E-3	Q 2002	K-6		
*D 707	P-6	IC 902	P-7	L 712	L-6	*Q 262	C-3	*Q 652	G-2	Q 2003	K-6	TP 1	D-1
*D 708	K-4	IC 903	P-7	L 720	L-5	*Q 263	C-3	*Q 701	N-2	Q 2004	K-6	TP 2	F-1
*D 709	K-4	IC 904	L-4	L 721	K-5	*Q 264	C-3	*Q 702	N-3	Q 2005	K-6	TP 101	D-1
		IC 905	J-1	L 901	M-6	*Q 265	C-3	*Q 703	M-3	Q 3001	J-6	TP 102	C-1
E 1	B-1	IC 906	J-3	L 902	M-4	*Q 266	C-3	*Q 704	M-3	Q 3002	J-6	TP 103	D-1
E 501	G-2	IC 907	N-4	L 903	P-2	*Q 267	C-3	*Q 705	N-3	Q 3003	J-6	TP 105	C-4
E 702	P-6	IC 908	L-4	L 904	P-2	*Q 268	C-3	*Q 706	N-4	Q 3004	J-6	TP 106	B-4
E 703	J-6			L 905	R-6	*Q 269	C-3	Q 707	M-4	Q 3005	J-6	TP 107	A-4
E 705	L-1	L 1	E-7	L 906	R-6	*Q 270	B-3	Q 708	N-4			TP 108	D-6
		L 2	L-7	L 907	K-5	*Q 291	B-3	*Q 709	N-4	RV 102	C-5	TP 201	B-4
FL 201	B-2	L 3	K-7	L 908	J-5	*Q 292	A-3	*Q 710	N-4	RV 103	C-5	TP 204	C-1
FL 202	B-1	L 4	J-7	L 909	J-4	*Q 293	A-3	*Q 711	N-4	RV 106	C-5	TP 205	C-3
FL 501	F-2	L 5	E-7	L 910	J-4	*Q 294	A-3	Q 712	N-4	RV 107	D-5	TP 401	F-1
FL 502	F-2	L 101	B-7	L 911	L-3	*Q 301	C-3	*Q 713	R-6	RV 108	C-6	TP 402	F-1
FL 701	L-4	L 121	A-7	L 912	L-3	*Q 321	A-3	*Q 714	R-5	RV 109	C-6	TP 403	F-1
		L 122	A-6	L 913	K-5	*Q 322	C-2	*Q 715	R-6	RV 111	D-7	TP 406	F-4
IC 1	H-1	L 123	A-7	L 914	L-5	*Q 323	C-2	*Q 716	R-5	RV 112	D-6	TP 407	F-4
IC 2	H-1	L 124	A-7	L 915	M-3	*Q 324	C-2	*Q 717	R-5	RV 113	D-6	TP 408	H-6
IC 3	G-1	L 125	A-6	L 916	M-3	*Q 325	D-2	*Q 718	R-5	RV 201	B-4	TP 501	G-4
IC 4	G-1	L 181	C-5	L 917	L-4	*Q 326	D-2	*Q 719	P-5	RV 202	C-4	TP 504	H-2
IC 5	E-4	L 182	C-5	L 918	J-3	*Q 327	C-2	*Q 728	K-6	RV 203	C-4	TP 505	G-3
IC 6	H-1	L 183	D-5	L 919	J-3	*Q 328	C-2	*Q 729	J-6	RV 204	A-4	TP 701	M-3
IC 10	F-7	L 184	D-7	L 920	J-1	*Q 329	D-2	*Q 730	K-4	RV 205	A-4	TP 703	M-6
IC 11	G-7	L 211	B-6	L 921	J-1	*Q 351	A-3	*Q 731	K-4	RV 206	B-4	TP 704	N-6
IC 12	H-7	L 212	C-5			*Q 352	C-1	*Q 732	K-4	RV 402	G-4	TP 705	N-6
IC 13	P-1	L 213	C-5	*Q 20	P-1	*Q 420	E-7	*Q 733	K-4	RV 403	G-4	TP 706	N-6
IC 14	R-1	L 231	C-6	*Q 120	A-7	*Q 421	E-6	*Q 734	L-3	RV 406	G-4	TP 707	P-6
IC 101	B-6	L 232	B-6	*Q 121	A-7	*Q 422	E-6	*Q 735	M-3	RV 407	H-4	TP 708	P-6
IC 102	D-6	L 261	B-3	*Q 122	A-6	*Q 423	E-6	*Q 736	M-3	RV 408	G-5	TP 711	M-6
IC 103	C-6	L 291	B-3	*Q 123	A-7	*Q 424	E-6	*Q 737	L-3	RV 409	H-5	TP 713	M-6
IC 104	C-7	L 292	A-3	*Q 124	A-6	*Q 425	F-6	*Q 738	L-3	RV 412	H-6	TP 715	K-1
IC 105	C-7	L 293	A-3	*Q 125	A-6	*Q 426	F-5	*Q 739	L-4	RV 413	H-6	TP 716	K-1
IC 201	B-3	L 294	D-4	*Q 126	A-6	*Q 427	E-5	*Q 740	L-5	RV 501	G-4	TP 717	L-1
IC 202	B-4	L 321	D-3	*Q 127	A-6	*Q 428	E-5	*Q 741	L-5	RV 502	G-4		
IC 203	C-4	L 322	D-2	*Q 128	A-5	*Q 461	E-4	*Q 742	L-5	RV 503	G-4		

* : B SIDE

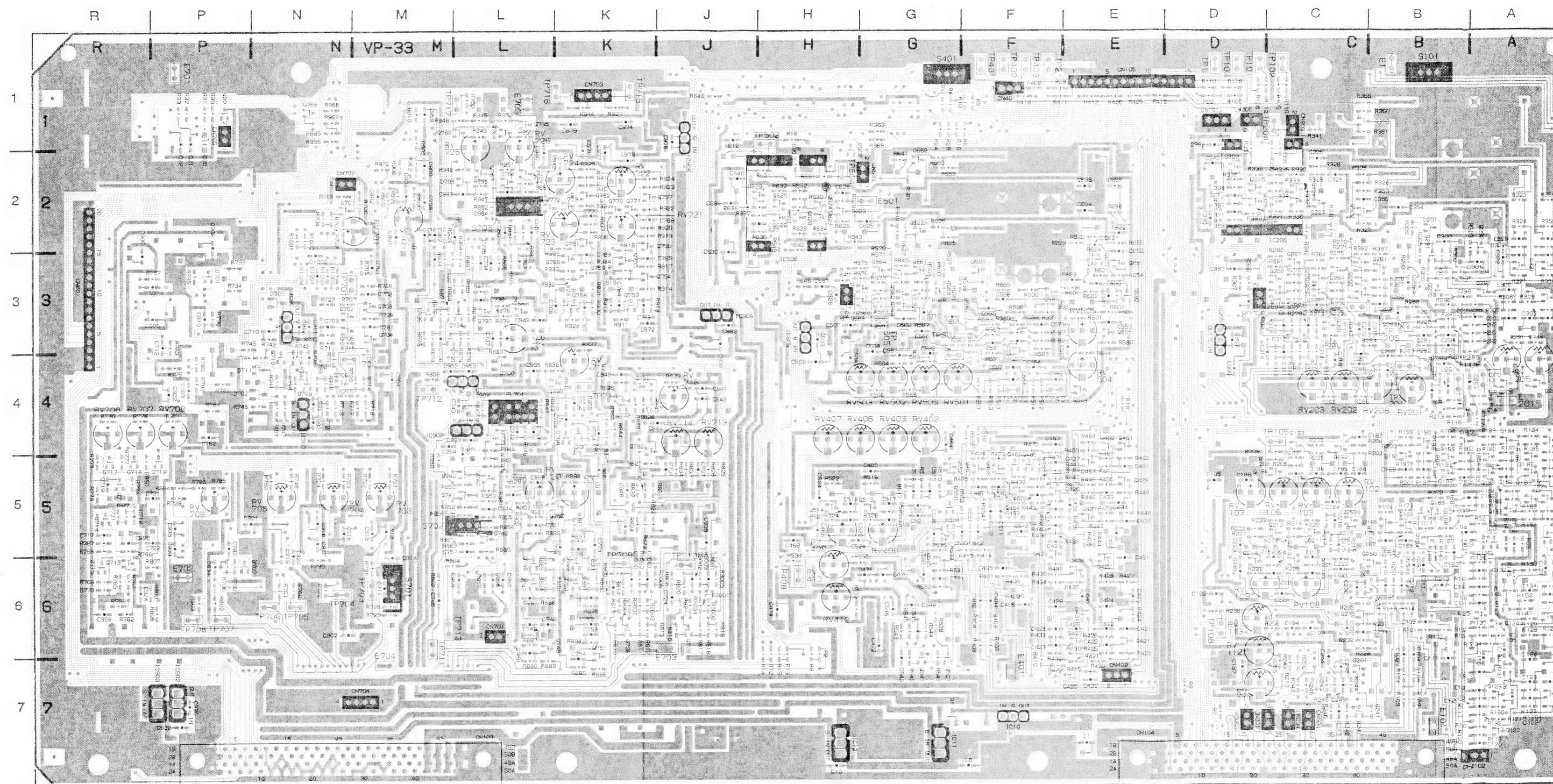




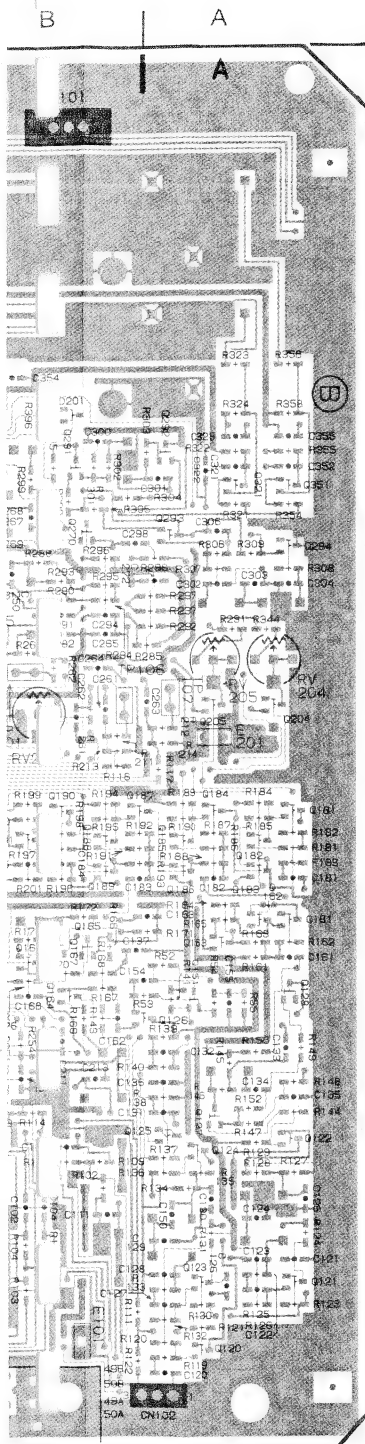
Serial No.(EK);12951 and higher
Serial No.(UC);10001 and higher

VP-33AP VP-33AP

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER



VP-33AP 1-140-032-14 B



P- AP 1-640-032-14 B SIDE

Serial No. (EK)
; 15256 and higher



DUS-668 1-648-773-11 B SIDE

VP-33AP (1-640-032-14)

CN 101	D-1	IC 204	C-2	L 351	D-3	*Q 151	A-5	*Q 462	E-4	*Q 743	L-5	RV 504	E-4
CN 102	A-7	IC 205	D-3	L 352	D-2	*Q 161	A-5	*Q 463	E-5	*Q 746	L-6	RV 505	E-3
CN 103	N-7	IC 206	C-2	L 401	F-6	*Q 162	A-5	*Q 464	F-5	*Q 747	L-6	RV 506	G-4
CN 104	C-7	IC 401	F-5	L 421	E-6	*Q 163	A-5	*Q 465	F-5	*Q 748	L-6	RV 701	M-2
CN 201	C-7	IC 402	H-5	L 422	E-6	*Q 164	B-5	*Q 466	F-5	*Q 749	K-6	RV 703	M-5
CN 202	D-3	IC 403	G-6	L 423	F-6	*Q 165	B-5	*Q 467	F-5	*Q 750	K-6	RV 704	N-5
CN 203	C-1	IC 404	G-6	L 424	F-6	*Q 167	B-5	*Q 468	F-5	*Q 751	K-7	RV 705	N-5
CN 204	C-7	IC 501	F-3	L 425	E-5	*Q 168	B-5	*Q 501	G-7	*Q 752	K-5	RV 706	R-4
CN 205	D-1	IC 502	G-4	L 450	E-5	*Q 169	B-5	*Q 504	E-4	*Q 753	K-3	RV 707	R-4
CN 401	F-1	IC 504	G-2	L 451	E-6	*Q 181	A-4	*Q 505	E-3	*Q 754	K-3	RV 708	P-4
CN 402	E-7	IC 506	H-2	L 461	G-6	*Q 182	A-5	*Q 513	G-5	*Q 755	K-3	RV 709	P-5
CN 501	D-7	IC 605	H-3	L 462	H-6	*Q 183	A-5	*Q 514	H-5	*Q 756	K-2	RV 712	L-3
CN 502	H-3	IC 701	P-3	L 511	F-6	*Q 184	A-4	*Q 515	G-6	*Q 757	K-2	RV 713	J-4
CN 503	G-2	IC 702	R-3	L 512	G-5	*Q 185	A-5	*Q 541	G-7	*Q 758	K-3	RV 714	J-4
CN 504	C-7	IC 703	R-6	L 513	H-5	*Q 186	A-5	*Q 550	G-5	*Q 759	K-3	RV 715	K-4
CN 701	L-6	IC 704	M-6	L 531	G-5	*Q 187	B-4	*Q 552	G-5	*Q 760	K-3	RV 716	J-4
CN 702	N-2	IC 705	N-6	L 532	F-5	*Q 188	B-5	*Q 561	G-3	*Q 761	K-2	RV 718	M-2
CN 703	K-1	IC 706	N-6	L 561	G-3	*Q 189	B-5	*Q 562	G-3	*Q 762	K-2	RV 719	K-5
CN 704	M-7	IC 707	P-6	L 591	E-3	*Q 190	B-4	*Q 563	G-3	*Q 763	L-1	RV 720	L-5
CN 705	P-1	IC 708	P-4	L 594	H-4	*Q 191	B-5	*Q 564	G-3	*Q 764	L-1	RV 721	K-2
CN 801	R-3	IC 710	K-5	L 621	H-3	*Q 192	C-4	*Q 565	G-3	*Q 765	L-1	RV 722	K-2
DL 101	B-5	IC 711	K-5	L 622	J-3	*Q 193	C-4	*Q 566	G-3	*Q 766	L-2	RV 723	K-2
DL 401	F-4	IC 712	K-4	L 651	H-3	*Q 194	C-5	*Q 570	F-4	*Q 767	L-2	RV 724	K-2
		IC 713	L-3	L 652	J-2	*Q 201	C-7	*Q 591	F-3	*Q 768	N-1	RV 725	L-1
		IC 714	L-3	L 701	R-5	*Q 204	A-4	*Q 592	E-3	*Q 770	K-2	RV 726	L-1
		IC 715	K-4	L 702	P-5	*Q 205	A-4	*Q 621	E-3	*Q 771	K-2		
*D 1	G-7	IC 716	L-6	L 703	L-3	*Q 211	C-5	*Q 622	G-2	*Q 772	L-2	S 101	B-1
*D 201	B-2	IC 717	M-3	L 704	L-4	*Q 212	C-5	*Q 623	H-2	*Q 773	K-2	S 401	G-1
*D 501	F-3	IC 718	M-2	L 705	L-6	*Q 213	C-6	*Q 624	H-2	Q 1001	N-2	S 701	M-6
*D 502	H-2	IC 719	M-1	L 706	L-6	*Q 214	D-6	*Q 625	H-2	Q 1002	N-2	S 702	L-5
*D 701	P-3	IC 720	K-2	L 707	K-6	*Q 215	C-6	*Q 626	H-2	Q 1003	N-2	S 703	L-2
*D 702	N-4	IC 721	K-2	L 708	K-6	*Q 241	C-7	*Q 627	H-2	Q 1004	N-3		
*D 703	L-2	IC 722	N-1	L 709	K-3	*Q 250	B-6	*Q 628	H-2	Q 1005	N-3	TH 301	D-2
*D 704	L-2	IC 801	M-2	L 710	K-3	*Q 252	C-5	*Q 629	H-2	Q 2001	K-6	TH 601	H-3
*D 705	N-3	IC 901	N-3	L 711	P-4	*Q 261	B-3	*Q 651	E-3	Q 2002	K-6		
*D 706	L-4	IC 902	P-7	L 712	L-6	*Q 262	C-3	*Q 652	G-2	Q 2003	K-6	TP 1	D-1
*D 707	P-6	IC 903	P-7	L 720	L-5	*Q 263	C-3	*Q 701	N-2	Q 2004	K-6	TP 2	F-1
*D 708	K-4	IC 904	L-4	L 721	K-5	*Q 264	C-3	*Q 702	N-3	Q 2005	K-6	TP 101	D-1
*D 709	K-4	IC 905	J-1	L 901	M-6	*Q 265	C-3	*Q 703	M-3	Q 3001	J-6	TP 102	C-1
E 1	B-1	IC 906	J-3	L 902	M-4	*Q 266	C-3	*Q 704	M-3	Q 3002	J-6	TP 103	D-1
E 501	G-2	IC 907	N-4	L 903	P-2	*Q 267	C-3	*Q 705	N-3	Q 3003	J-6	TP 105	C-4
E 702	P-6	IC 908	L-4	L 904	P-2	*Q 268	C-3	*Q 706	N-4	Q 3004	J-6	TP 106	B-4
E 703	J-6			L 905	R-6	*Q 269	C-3	Q 707	M-4	Q 3005	J-6	TP 107	A-4
E 705	L-1			L 906	R-6	*Q 270	B-3	Q 708	N-4			TP 108	D-6
				L 907	K-5	*Q 291	B-3	*Q 709	N-4	RV 102	C-5	TP 201	B-4
FL 201	B-2			L 908	J-5	*Q 292	A-3	*Q 710	N-4	RV 103	C-5	TP 204	C-1
FL 202	B-1			L 909	J-4	*Q 293	A-3	*Q 711	N-4	RV 106	C-5	TP 205	C-3
FL 501	F-2			L 910	J-4	*Q 294	A-3	Q 712	N-4	RV 107	D-5	TP 401	F-1
FL 502	F-2			L 911	L-3	*Q 301	C-3	*Q 713	R-6	RV 108	C-6	TP 402	F-1
FL 701	L-4			L 912	L-3	*Q 321	A-3	*Q 714	R-5	RV 109	C-6	TP 403	F-1
				L 913	K-5	*Q 322	C-2	*Q 715	R-6	RV 111	D-7	TP 406	F-4
IC 1	H-1			L 914	L-5	*Q 323	C-2	*Q 716	R-5	RV 112	D-6	TP 407	F-4
IC 2	H-1			L 915	M-3	*Q 324	C-2	*Q 717	R-5	RV 113	D-6	TP 408	H-6
IC 3	G-1			L 916	M-3	*Q 325	D-2	*Q 718	R-5	RV 201	B-4	TP 501	G-4
IC 4	G-1			L 917	L-4	*Q 326	D-2	*Q 719	P-5	RV 202	C-4	TP 504	H-2
IC 5	E-4			L 918	J-3	*Q 327	C-2	*Q 728	K-6	RV 203	C-4	TP 505	G-3
IC 6	H-1			L 919	J-3	*Q 328	C-2	*Q 729	J-6	RV 204	A-4	TP 701	M-3
IC 10	F-7			L 920	J-1	*Q 329	D-2	*Q 730	K-4	RV 205	A-4	TP 703	M-6
IC 11	G-7			L 921	J-1	*Q 351	A-3	*Q 731	K-4	RV 206	B-4	TP 704	N-6
IC 12	H-7					*Q 352	C-1	*Q 732	K-4	RV 402	G-4	TP 705	N-6
IC 13	P-1					*Q 420	E-7	*Q 733	K-4	RV 403	G-4	TP 706	N-6
IC 14	R-1					*Q 421	E-6	*Q 734	L-3	RV 406	G-4	TP 707	P-6
IC 101	B-6					*Q 422	E-6	*Q 735	M-3	RV 407	H-4	TP 708	P-6
IC 102	D-6					*Q 423	E-6	*Q 736	M-3	RV 408	G-5	TP 711	M-6
IC 103	C-6					*Q 424	E-6	*Q 737	L-3	RV 409	H-5	TP 713	M-6
IC 104	C-7					*Q 425	F-6	*Q 738	L-3	RV 412	H-6	TP 715	K-1
IC 105	C-7					*Q 426	F-5	*Q 739	L-4	RV 413	H-6	TP 716	K-1
IC 201	B-3					*Q 427	E-5	*Q 740	L-5	RV 501	G-4	TP 717	L-1
IC 202	B-4					*Q 428	E-5	*Q 741	L-5	RV 502	G-4		
IC 203	C-4					*Q 461	E-4	*Q 742	L-5	RV 503	G-4		

*: B SIDE

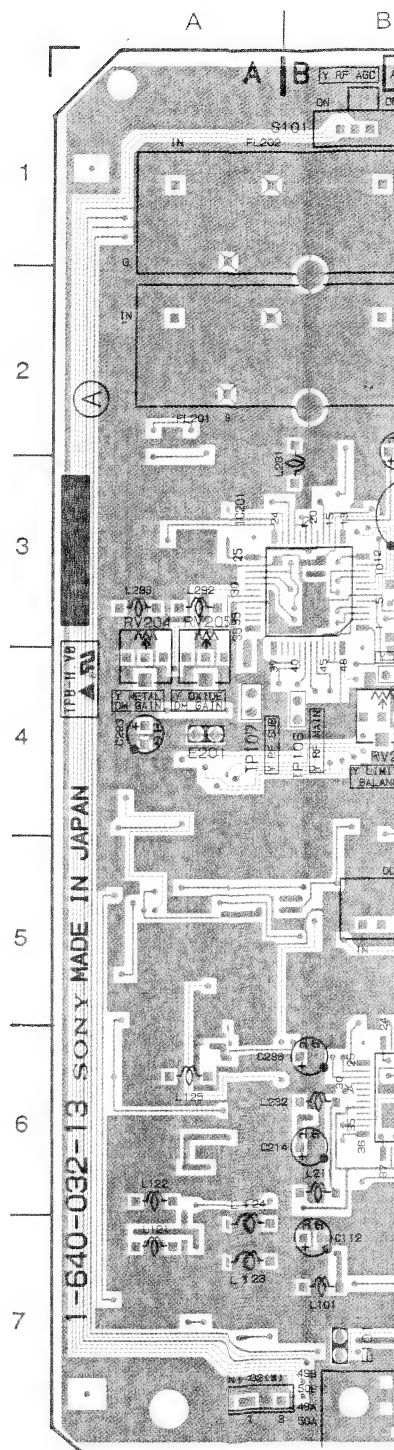
Serial No. (EK) ; 12241 to 12950

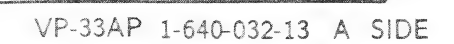
VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

VP-33AP (1-640-032-13)

CN 101	D-1	IC 105	C-7	L 294	D-4	*Q 128	A-5	*Q 463	E-5	*Q 746	L-6	RV 505	E-3
CN 102	A-7	IC 201	B-3	L 321	D-3	*Q 151	A-5	*Q 464	F-5	*Q 747	L-6	RV 506	G-4
CN 103	N-7	IC 202	C-4	L 322	D-2	*Q 161	A-5	*Q 465	F-5	*Q 748	L-6	RV 701	M-2
CN 104	C-7	IC 203	C-3	L 351	D-3	*Q 162	A-5	*Q 466	F-5	*Q 749	K-5	RV 703	M-5
CN 105	E-1	IC 204	C-2	L 352	D-2	*Q 163	A-5	*Q 467	F-5	*Q 750	K-6	RV 704	N-5
CN 201	C-7	IC 205	D-3	L 401	F-6	*Q 164	B-5	*Q 468	F-5	*Q 751	K-6	RV 705	N-5
CN 202	D-3	IC 206	C-2	L 421	E-6	*Q 165	B-5	*Q 501	G-7	*Q 752	K-5	RV 706	R-4
CN 203	C-1	IC 401	F-5	L 422	E-6	*Q 167	B-5	*Q 504	E-4	*Q 753	K-3	RV 707	R-4
CN 204	C-7	IC 402	H-5	L 423	F-6	*Q 168	B-5	*Q 505	E-3	*Q 754	K-3	RV 708	P-4
CN 205	D-1	IC 403	G-6	L 424	F-6	*Q 169	B-5	*Q 513	G-5	*Q 755	K-3	RV 709	P-5
CN 401	F-1	IC 404	G-6	L 425	E-5	*Q 181	A-4	*Q 514	H-5	*Q 756	K-2	RV 712	L-3
CN 402	E-7	IC 501	F-3	L 450	E-5	*Q 182	A-5	*Q 515	G-6	*Q 757	K-2	RV 713	J-4
CN 501	D-7	IC 502	G-3	L 451	E-6	*Q 183	A-5	*Q 541	G-7	*Q 758	K-3	RV 714	J-4
CN 502	H-3	IC 504	G-2	L 461	G-6	*Q 184	A-4	*Q 550	G-5	*Q 759	K-3	RV 715	K-4
CN 503	G-2	IC 506	H-2	L 462	H-6	*Q 185	A-5	*Q 552	G-5	*Q 760	K-3	RV 716	J-4
CN 504	C-7	IC 605	H-3	L 511	F-6	*Q 186	A-5	*Q 561	G-3	*Q 761	K-2	RV 718	M-2
CN 701	L-6	IC 701	P-3	L 512	G-5	*Q 187	B-4	*Q 562	G-3	*Q 762	K-2	RV 719	K-5
CN 702	N-2	IC 702	R-3	L 513	H-5	*Q 188	B-5	*Q 563	G-3	*Q 763	L-1	RV 720	L-5
CN 703	K-1	IC 703	R-6	L 531	G-5	*Q 189	B-5	*Q 564	G-3	*Q 764	L-1	RV 721	K-2
CN 704	M-7	IC 704	M-5	L 532	F-5	*Q 190	B-4	*Q 565	G-3	*Q 765	L-1	RV 722	K-2
CN 705	P-1	IC 705	N-5	L 561	G-3	*Q 191	B-5	*Q 566	G-3	*Q 766	L-2	RV 723	K-2
CN 801	R-3	IC 706	N-5	L 591	E-3	*Q 192	C-4	*Q 570	F-3	*Q 767	L-2	RV 724	K-2
		IC 707	P-5	L 594	H-4	*Q 193	C-4	*Q 591	F-3	*Q 768	N-1	RV 725	L-1
DL 101	B-5	IC 708	P-4	L 621	H-3	*Q 194	C-5	*Q 592	E-3	*Q 770	K-2	RV 726	L-1
DL 401	F-4	IC 710	K-5	L 622	J-3	*Q 201	C-7	*Q 621	E-3	*Q 771	K-2		
		IC 711	K-5	L 651	H-3	*Q 204	A-4	*Q 622	G-2	*Q 772	L-2	S 101	B-1
*D 1	G-7	IC 712	K-4	L 652	J-2	*Q 205	A-4	*Q 623	H-2	*Q 773	K-2	S 401	G-1
*D 201	B-2	IC 713	L-3	L 701	R-5	*Q 211	C-5	*Q 624	H-2	Q 1001	N-2	S 701	M-6
*D 501	F-3	IC 714	L-3	L 702	P-5	*Q 212	C-5	*Q 625	H-2	Q 1002	N-2	S 702	L-5
*D 502	H-2	IC 715	K-4	L 703	L-3	*Q 213	C-6	*Q 626	H-2	Q 1003	N-2	S 703	L-2
*D 701	P-3	IC 716	L-6	L 704	L-4	*Q 214	D-6	*Q 627	H-2	Q 1004	N-3		
*D 702	N-4	IC 717	M-3	L 705	L-6	*Q 215	C-6	*Q 628	H-2	Q 1005	N-3	TP 1	D-1
*D 703	L-2	IC 718	M-2	L 706	L-6	*Q 241	C-7	*Q 629	H-2	Q 2001	K-6	TP 2	F-1
*D 704	L-2	IC 719	M-1	L 707	K-6	*Q 250	B-6	*Q 651	E-3	Q 2002	K-6	TP 101	D-1
*D 705	N-3	IC 720	K-1	L 708	K-6	*Q 252	C-5	*Q 652	G-2	Q 2003	K-6	TP 102	C-1
*D 706	L-4	IC 721	K-1	L 709	K-3	*Q 261	B-3	*Q 701	N-2	Q 2004	K-6	TP 103	D-1
*D 707	P-6	IC 722	N-1	L 710	K-3	*Q 263	C-3	*Q 702	N-3	Q 2005	K-6	TP 105	C-4
*D 708	K-4	IC 801	M-2	L 711	P-4	*Q 264	C-3	*Q 703	M-3	Q 3001	J-6	TP 106	B-4
*D 709	K-4	IC 902	P-7	L 712	L-6	*Q 265	C-3	*Q 704	M-3	Q 3002	J-6	TP 107	A-4
		IC 903	R-7	L 721	K-5	*Q 266	C-3	*Q 705	N-3	Q 3003	J-6	TP 108	D-6
E 1	B-1	IC 904	L-4	L 901	M-6	*Q 267	C-3	*Q 706	N-4	Q 3004	J-6	TP 201	B-4
E 101	B-7	IC 905	J-1	L 902	M-4	*Q 269	C-3	Q 707	M-4	Q 3005	J-6	TP 204	C-1
E 201	A-4	IC 906	J-3	L 903	P-2	*Q 270	B-3	Q 708	N-4			TP 205	C-3
E 401	F-7	IC 907	N-4	L 904	P-2	*Q 291	B-3	*Q 709	N-4	RV 102	C-5	TP 401	F-1
E 501	G-2	IC 908	L-4	L 905	R-6	*Q 292	A-3	*Q 710	N-4	RV 103	C-5	TP 402	F-1
E 701	P-1			L 906	R-6	*Q 293	A-3	*Q 711	N-4	RV 106	C-5	TP 403	F-1
E 702	P-6	L 1	E-7	L 907	K-5	*Q 294	A-3	*Q 712	N-4	RV 107	D-5	TP 406	F-4
E 703	J-6	L 2	L-7	L 908	J-5	*Q 301	C-3	*Q 713	R-6	RV 108	C-6	TP 407	F-4
E 704	M-6	L 3	K-7	L 909	J-4	*Q 321	A-3	*Q 714	R-5	RV 109	C-6	TP 408	H-6
E 705	L-1	L 4	J-7	L 910	J-4	*Q 322	C-2	*Q 715	R-6	RV 111	D-7	TP 501	G-4
		L 5	E-7	L 911	L-3	*Q 323	C-2	*Q 716	R-5	RV 112	D-6	TP 502	H-1
FL 201	B-2	L 101	B-7	L 912	L-3	*Q 324	C-2	*Q 717	R-5	RV 113	D-6	TP 504	H-2
FL 202	B-1	L 121	A-7	L 913	K-5	*Q 325	D-2	*Q 718	R-5	RV 201	B-4	TP 505	G-3
FL 501	F-2	L 122	A-6	L 914	L-5	*Q 326	D-2	*Q 719	P-5	RV 202	C-4	TP 701	M-3
FL 502	F-2	L 123	A-7	L 915	M-3	*Q 327	C-2	*Q 728	K-6	RV 203	C-4	TP 702	N-4
FL 701	L-4	L 124	A-6	L 916	M-3	*Q 328	C-2	*Q 729	J-6	RV 204	A-4	TP 703	M-6
		L 125	A-6	L 917	L-4	*Q 329	D-2	*Q 730	K-4	RV 205	A-4	TP 704	N-6
IC 1	H-1	L 181	C-5	L 918	J-3	*Q 351	A-3	*Q 731	K-4	RV 206	B-4	TP 705	N-6
IC 2	H-1	L 182	C-5	L 919	J-3	*Q 352	C-1	*Q 732	K-4	RV 402	G-4	TP 706	N-6
IC 3	H-1	L 183	D-5	L 920	J-1	*Q 420	E-7	*Q 733	K-4	RV 403	G-4	TP 707	P-6
IC 4	G-1	L 184	D-7	L 921	J-1	*Q 421	E-6	*Q 734	L-3	RV 406	G-4	TP 708	P-6
IC 5	E-4	L 211	B-6			*Q 422	E-6	*Q 735	M-3	RV 407	H-4	TP 709	K-6
IC 6	H-1	L 212	C-5	*Q 120	A-7	*Q 423	E-6	*Q 736	M-3	RV 408	G-5	TP 710	J-6
IC 10	F-7	L 213	C-5	*Q 121	A-7	*Q 424	E-6	*Q 737	L-3	RV 409	H-5	TP 711	M-6
IC 11	G-7	L 231	C-6	*Q 122	A-6	*Q 425	F-6	*Q 738	L-3	RV 412	H-6	TP 712	M-4
IC 12	H-7	L 232	B-6	*Q 123	A-7	*Q 426	F-5	*Q 739	L-4	RV 413	H-6	TP 713	M-6
IC 101	B-6	L 261	B-3	*Q 124	A-6	*Q 427	E-5	*Q 740	L-5	RV 501	G-4	TP 714	K-4
IC 102	D-6	L 291	B-3	*Q 125	A-6	*Q 428	E-5	*Q 741	L-5	RV 502	G-4	TP 715	K-1
IC 103	C-6	L 292	A-3	*Q 126	A-5	*Q 461	E-4	*Q 742	L-5	RV 503	G-4	TP 716	K-1
IC 104	C-7	L 293	A-3	*Q 127	A-6	*Q 462	E-4	*Q 743	L-5	RV 504	E-4	TP 717	L-1

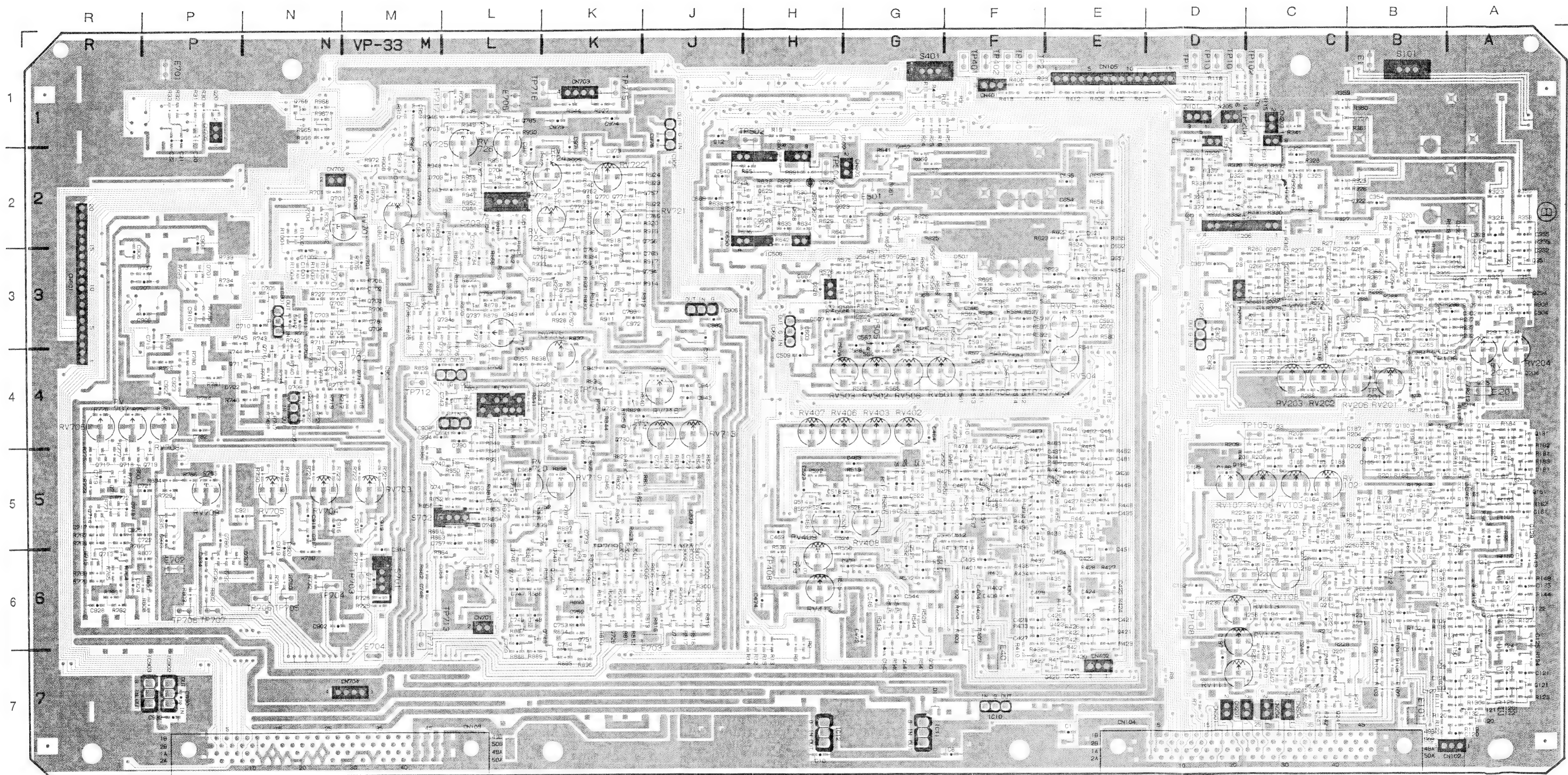
* : B SIDE





Serial No. (EK); 12241 to 12950

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER



VP-33AP 1-640-03213 B SIDE

VP-33AP (1-640-032-13)

CN 101	D-1	IC 105	C-7	L 294	D-4	*Q 128	A-5	*Q 463	E-5	*Q 746	L-6	RV 505	E-3
CN 102	A-7	IC 201	B-3	L 321	D-3	*Q 151	A-5	*Q 464	F-5	*Q 747	L-6	RV 506	G-4
CN 103	N-7	IC 202	C-4	L 322	D-2	*Q 161	A-5	*Q 465	F-5	*Q 748	L-6	RV 701	M-2
CN 104	C-7	IC 203	C-3	L 351	D-3	*Q 162	A-5	*Q 466	F-5	*Q 749	K-5	RV 703	M-5
CN 105	E-1	IC 204	C-2	L 352	D-2	*Q 163	A-5	*Q 467	F-5	*Q 750	K-6	RV 704	N-5
CN 201	C-7	IC 205	D-3	L 401	F-6	*Q 164	B-5	*Q 468	F-5	*Q 751	K-6	RV 705	N-5
CN 202	D-3	IC 206	C-2	L 421	E-6	*Q 165	B-5	*Q 501	G-7	*Q 752	K-5	RV 706	R-4
CN 203	C-1	IC 401	F-5	L 422	E-6	*Q 167	B-5	*Q 504	E-4	*Q 753	K-3	RV 707	R-4
CN 204	C-7	IC 402	H-5	L 423	F-6	*Q 168	B-5	*Q 505	E-3	*Q 754	K-3	RV 708	P-4
CN 205	D-1	IC 403	G-6	L 424	F-6	*Q 169	B-5	*Q 513	G-5	*Q 755	K-3	RV 709	P-5
CN 401	F-1	IC 404	G-6	L 425	E-5	*Q 181	A-4	*Q 514	H-5	*Q 756	K-2	RV 712	L-3
CN 402	E-7	IC 501	F-3	L 450	E-5	*Q 182	A-5	*Q 515	G-6	*Q 757	K-2	RV 713	J-4
CN 501	D-7	IC 502	G-3	L 451	E-6	*Q 183	A-5	*Q 541	G-7	*Q 758	K-3	RV 714	J-4
CN 502	H-3	IC 504	G-2	L 461	G-6	*Q 184	A-4	*Q 550	G-5	*Q 759	K-3	RV 715	K-4
CN 503	G-2	IC 506	H-2	L 462	H-6	*Q 185	A-5	*Q 552	G-5	*Q 760	K-3	RV 716	J-4
CN 504	C-7	IC 605	H-3	L 511	F-6	*Q 186	A-5	*Q 561	G-3	*Q 761	K-2	RV 718	M-2
CN 701	L-6	IC 701	P-3	L 512	G-5	*Q 187	B-4	*Q 562	G-3	*Q 762	K-2	RV 719	K-5
CN 702	N-2	IC 702	R-3	L 513	H-5	*Q 188	B-5	*Q 563	G-3	*Q 763	L-1	RV 720	L-5
CN 703	K-1	IC 703	R-6	L 531	G-5	*Q 189	B-5	*Q 564	G-3	*Q 764	L-1	RV 721	K-2
CN 704	M-7	IC 704	M-5	L 532	F-5	*Q 190	B-4	*Q 565	G-3	*Q 765	L-1	RV 722	K-2
CN 705	P-1	IC 705	N-5	L 561	G-3	*Q 191	B-5	*Q 566	G-3	*Q 766	L-2	RV 723	K-2
CN 801	R-3	IC 706	N-5	L 591	E-3	*Q 192	C-4	*Q 570	F-3	*Q 767	L-2	RV 724	K-2
DL 101	B-5	IC 707	P-5	L 594	H-4	*Q 193	C-4	*Q 591	F-3	*Q 768	N-1	RV 725	L-1
DL 401	F-4	IC 708	P-4	L 621	H-3	*Q 194	C-5	*Q 592	E-3	*Q 770	K-2	RV 726	L-1
*D 1	G-7	IC 710	K-5	L 622	J-3	*Q 201	C-7	*Q 621	E-3	*Q 771	K-2		
*D 201	B-2	IC 711	K-5	L 651	H-3	*Q 204	A-4	*Q 622	G-2	*Q 772	L-2	S 101	B-1
*D 501	F-3	IC 712	K-4	L 652	J-2	*Q 205	A-4	*Q 623	H-2	*Q 773	K-2	S 401	G-1
*D 502	H-2	IC 713	L-3	L 701	R-5	*Q 211	C-5	*Q 624	H-2	Q 1001	N-2	S 701	M-6
*D 701	P-3	IC 714	L-3	L 702	P-5	*Q 212	C-5	*Q 625	H-2	Q 1002	N-2	S 702	L-5
*D 702	N-4	IC 715	K-4	L 703	L-3	*Q 213	C-6	*Q 626	H-2	Q 1003	N-2	S 703	L-2
*D 703	L-2	IC 716	L-6	L 704	L-4	*Q 214	D-6	*Q 627	H-2	Q 1004	N-3		
*D 704	L-2	IC 717	M-3	L 705	L-6	*Q 215	C-6	*Q 628	H-2	Q 1005	N-3	TP 1	D-1
*D 705	N-3	IC 718	M-2	L 706	L-6	*Q 241	C-7	*Q 629	H-2	Q 2001	K-6	TP 2	F-1
*D 706	L-4	IC 719	M-1	L 707	K-6	*Q 250	B-6	*Q 651	E-3	Q 2002	K-6	TP 101	D-1
*D 707	P-6	IC 720	K-1	L 708	K-6	*Q 252	C-5	*Q 652	G-2	Q 2003	K-6	TP 102	C-1
*D 708	K-4	IC 721	K-1	L 709	K-3	*Q 261	B-3	*Q 701	N-2	Q 2004	K-6	TP 103	D-1
*D 709	K-4	IC 722	N-1	L 710	K-3	*Q 263	C-3	*Q 702	N-3	Q 2005	K-6	TP 105	C-4
E 1	B-1	IC 801	M-2	L 711	P-4	*Q 264	C-3	*Q 703	M-3	Q 3001	J-6	TP 106	B-4
E 101	B-7	IC 902	P-7	L 712	L-6	*Q 265	C-3	*Q 704	M-3	Q 3002	J-6	TP 107	A-4
E 201	A-4	IC 903	R-7	L 721	K-5	*Q 266	C-3	*Q 705	N-3	Q 3003	J-6	TP 108	D-6
E 401	F-7	IC 904	L-4	L 901	M-6	*Q 267	C-3	*Q 706	N-4	Q 3004	J-6	TP 201	B-4
E 501	G-2	IC 905	J-1	L 902	M-4	*Q 269	C-3	Q 707	M-4	Q 3005	J-6	TP 204	C-1
E 701	P-1	IC 906	J-3	L 903	P-2	*Q 270	B-3	Q 708	N-4			TP 205	C-3
E 702	P-6	IC 907	N-4	L 904	P-2	*Q 291	B-3	*Q 709	N-4	RV 102	C-5	TP 401	F-1
E 703	J-6	IC 908	L-4	L 905	R-6	*Q 292	A-3	*Q 710	N-4	RV 103	C-5	TP 402	F-1
E 704	M-6			L 906	R-6	*Q 293	A-3	*Q 711	N-4	RV 106	C-5	TP 403	F-1
E 705	L-1			L 907	K-5	*Q 294	A-3	*Q 712	N-4	RV 107	D-5	TP 406	F-4
FL 201	B-2	L 1	E-7	L 908	J-5	*Q 301	C-3	*Q 713	R-6	RV 108	C-6	TP 407	F-4
FL 202	B-1	L 2	L-7	L 909	J-4	*Q 321	A-3	*Q 714	R-5	RV 109	C-6	TP 408	H-6
FL 501	F-2	L 3	K-7	L 910	J-4	*Q 322	C-2	*Q 715	R-6	RV 111	D-7	TP 501	G-4
FL 502	F-2	L 4	J-7	L 911	L-3	*Q 323	C-2	*Q 716	R-5	RV 112	D-6	TP 502	H-1
FL 701	L-4	L 5	E-7	L 912	L-3	*Q 324	C-2	*Q 717	R-5	RV 113	D-6	TP 504	H-2
IC 1	H-1	L 101	B-7	L 913	K-5	*Q 325	D-2	*Q 718	R-5	RV 201	B-4	TP 505	G-3
IC 2	H-1	L 121	A-7	L 914	L-5	*Q 326	D-2	*Q 719	P-5	RV 202	C-4	TP 701	M-3
IC 3	H-1	L 122	A-6	L 915	M-3	*Q 327	C-2	*Q 728	K-6	RV 203	C-4	TP 702	N-4
IC 4	G-1	L 123	A-7	L 916	M-3	*Q 328	C-2	*Q 729	J-6	RV 204	A-4	TP 703	M-6
IC 5	E-4	L 124	A-6	L 917	L-4	*Q 329	D-2	*Q 730	K-4	RV 205	A-4	TP 704	N-6
IC 6	H-1	L 125	A-6	L 918	J-3	*Q 351	A-3	*Q 731	K-4	RV 206	B-4	TP 705	N-6
IC 10	F-7	L 181	C-5	L 919	J-3	*Q 352	C-1	*Q 732	K-4	RV 402	G-4	TP 706	N-6
IC 11	G-7	L 182	C-5	L 920	J-1	*Q 420	E-7	*Q 733	K-4	RV 403	G-4	TP 707	P-6
IC 12	H-7	L 183	D-5	L 921	J-1	*Q 421	E-6	*Q 734	L-3	RV 406	G-4	TP 708	P-6
IC 101	B-6	L 184	D-7			*Q 422	E-6	*Q 735	M-3	RV 407	H-4	TP 709	K-6
IC 102	D-6	L 211	B-6			*Q 423	E-6	*Q 736	M-3	RV 408	G-5	TP 710	J-6
IC 103	C-6	L 212	C-5	*Q 120	A-7	*Q 424	E-6	*Q 737	L-3	RV 409	H-5	TP 711	M-6
IC 104	C-7	L 213	C-5	*Q 121	A-7	*Q 425	F-6	*Q 738	L-3	RV 412	H-6	TP 712	M-4
		L 231	C-6	*Q 122	A-6	*Q 426	F-5	*Q 739	L-4	RV 413	H-6	TP 713	M-6
		L 232	B-6	*Q 123	A-7	*Q 427	E-5	*Q 740	L-5	RV 501	G-4	TP 714	K-4
		L 261	B-3	*Q 124	A-6	*Q 428	E-5	*Q 741	L-5	RV 502	G-4	TP 715	K-1
		L 291	B-3	*Q 125	A-6	*Q 461	E-4	*Q 742	L-5	RV 503	G-4	TP 716	K-1
		L 292	A-3	*Q 126	A-5	*Q 462	E-4	*Q 743	L-5	RV 504	E-4	TP 717	L-1
		L 293	A-3										

* : B SIDE

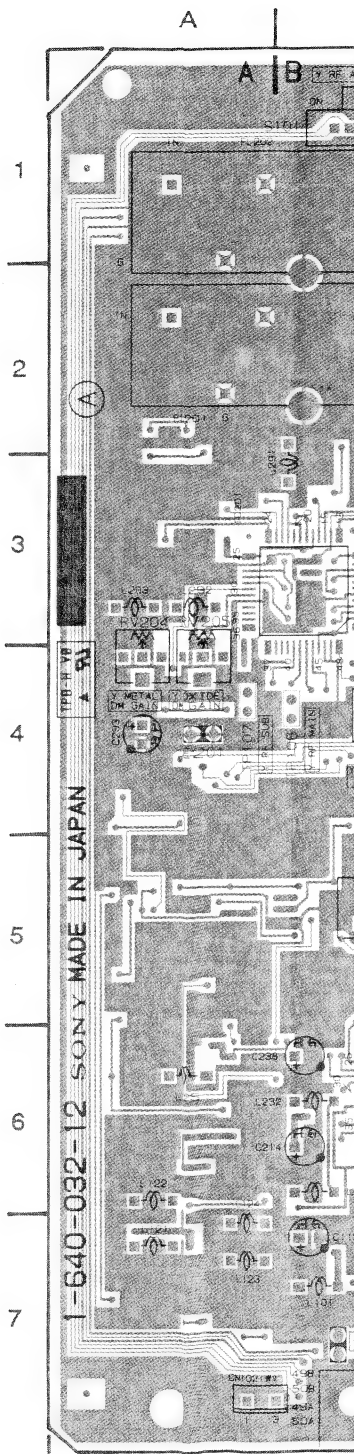
Serial No. (EK) ; 10651 to 12240

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

VP-33AP (1-640-032-12)

CN 101	D-1	IC 204	C-2	L 401	F-6	* Q 169	B-5	* Q 501	G-7	* Q 756	K-2	RV 713	J-4
CN 102	A-7	IC 205	D-3	L 421	E-6	* Q 181	A-4	* Q 513	G-5	* Q 757	K-2	RV 714	J-4
CN 103	N-7	IC 206	C-2	L 422	E-6	* Q 182	A-5	* Q 514	H-5	* Q 758	K-3	RV 715	K-4
CN 104	C-7	IC 401	F-5	L 423	F-6	* Q 183	A-5	* Q 515	G-6	* Q 759	K-3	RV 716	J-4
CN 105	E-1	IC 402	H-5	L 424	F-6	* Q 184	A-4	* Q 541	G-7	* Q 760	K-3	RV 718	M-2
CN 201	C-7	IC 403	G-6	L 425	E-5	* Q 185	A-5	* Q 550	G-5	* Q 761	K-2	RV 719	K-5
CN 202	D-3	IC 404	G-6	L 461	G-6	* Q 186	A-5	* Q 552	G-5	* Q 762	K-2	RV 720	L-5
CN 203	C-1	IC 501	F-3	L 462	H-6	* Q 187	B-4	* Q 561	G-3	* Q 763	L-1	RV 721	K-2
CN 204	C-7	IC 502	G-4	L 511	F-6	* Q 188	B-5	* Q 562	G-3	* Q 764	L-1	RV 722	K-2
CN 401	F-1	IC 506	H-2	L 512	G-5	* Q 189	B-5	* Q 563	G-3	* Q 765	L-1	RV 723	K-2
CN 402	E-7	IC 605	H-3	L 513	H-5	* Q 190	B-4	* Q 564	G-3	* Q 766	L-2	RV 724	K-2
CN 501	D-7	IC 701	P-3	L 531	G-5	* Q 191	B-5	* Q 565	G-3	* Q 767	L-2	RV 725	L-1
CN 502	H-3	IC 702	R-3	L 532	F-5	* Q 192	C-4	* Q 566	G-3	* Q 768	N-1	RV 726	L-1
CN 503	G-2	IC 703	R-6	L 561	G-3	* Q 193	C-4	* Q 570	F-3	* Q 770	K-2		
CN 504	C-7	IC 704	M-6	L 591	E-3	* Q 194	C-5	* Q 591	F-3	* Q 771	K-2	S 101	B-1
CN 701	L-1	IC 705	N-6	L 594	H-4	* Q 201	C-7	* Q 592	E-3	* Q 772	L-2	S 401	G-1
CN 702	N-2	IC 706	N-6	L 621	H-3	* Q 202	D-7	* Q 621	E-3	* Q 773	K-2	S 701	M-6
CN 703	K-1	IC 707	P-6	L 622	J-3	* Q 204	A-4	* Q 622	G-2	Q 1001	N-2	S 702	L-5
CN 704	M-7	IC 708	P-4	L 651	H-3	* Q 205	A-4	* Q 623	H-2	Q 1002	N-2	S 703	L-2
CN 801	R-3	IC 710	K-5	L 652	J-2	* Q 211	C-5	* Q 624	H-2	Q 1003	N-2		
		IC 711	K-5	L 701	R-5	* Q 212	C-5	* Q 625	H-2	Q 1004	N-3	TP 1	D-1
DL 101	B-5	IC 712	K-4	L 702	P-5	* Q 213	C-6	* Q 626	H-2	Q 1005	N-3	TP 2	F-1
DL 401	F-4	IC 713	L-3	L 703	L-3	* Q 214	D-6	* Q 627	H-2	Q 2001	K-6	TP 101	D-1
		IC 714	L-3	L 704	L-4	* Q 215	C-6	* Q 628	H-2	Q 2002	K-6	TP 102	C-1
* D 1	G-7	IC 715	K-4	L 705	L-6	* Q 241	C-7	* Q 629	H-2	Q 2003	K-6	TP 103	D-1
* D 201	B-2	IC 716	L-6	L 706	L-6	* Q 250	B-6	* Q 701	N-2	Q 2004	K-6	TP 105	C-4
* D 501	F-3	IC 717	M-3	L 707	K-6	* Q 252	B-5	* Q 702	N-3	Q 2005	K-6	TP 106	B-4
D 502	S-8	IC 718	M-2	L 708	K-6	* Q 261	B-3	* Q 703	M-3	Q 3001	J-6	TP 107	A-4
* D 701	P-3	IC 719	M-1	L 709	K-3	* Q 262	C-3	* Q 704	M-3	Q 3002	J-6	TP 108	D-6
* D 702	N-4	IC 720	K-2	L 710	K-3	* Q 263	C-3	* Q 705	N-3	Q 3003	J-6	TP 201	B-4
* D 703	L-2	IC 721	K-2	L 711	P-4	* Q 264	C-3	* Q 706	N-4	Q 3004	J-6	TP 202	D-1
* D 704	L-2	IC 722	N-1	L 712	L-6	* Q 265	C-3	* Q 707	M-4	Q 3005	J-6	TP 204	C-1
* D 705	N-3	IC 901	N-3	L 901	M-6	* Q 266	C-3	Q 708	N-4			TP 205	C-3
* D 706	L-4	IC 902	P-7	L 902	M-4	* Q 267	C-3	* Q 709	N-4	RV 102	C-5	TP 401	F-1
* D 707	P-6	IC 903	P-7	L 903	P-2	* Q 268	C-3	* Q 710	N-4	RV 103	C-5	TP 402	F-1
* D 708	K-4	IC 904	L-4	L 904	P-2	* Q 269	C-3	* Q 711	N-4	RV 106	C-5	TP 403	F-1
* D 709	K-4	IC 905	J-1	L 905	R-6	* Q 270	B-3	Q 712	N-4	RV 107	D-5	TP 406	F-4
		IC 906	J-3	L 906	R-6	* Q 291	B-3	* Q 713	R-6	RV 108	C-6	TP 407	F-4
		IC 907	N-4	L 907	K-5	* Q 292	A-3	* Q 714	R-5	RV 109	C-6	TP 408	H-6
E 1	B-1	IC 908	L-4	L 908	J-5	* Q 293	A-3	* Q 715	R-6	RV 111	D-7	TP 501	G-4
E 101	B-7			L 909	J-4	* Q 294	A-3	* Q 716	R-5	RV 112	D-6	TP 502	J-2
E 201	A-4			L 910	J-4	* Q 301	C-3	* Q 717	R-5	RV 113	D-6	TP 504	H-2
E 401	F-7	L 1	E-7	L 911	L-3	* Q 321	A-3	* Q 718	R-5	RV 201	B-4	TP 505	G-3
E 701	P-1	L 2	L-7	L 912	L-3	* Q 322	C-2	* Q 719	P-5	RV 202	C-4	TP 701	M-3
E 702	R-7	L 3	K-7	L 913	K-5	* Q 323	C-2	* Q 728	K-6	RV 203	C-4	TP 702	N-4
E 703	J-6	L 4	J-7	L 914	L-5	* Q 324	C-2	* Q 729	J-6	RV 204	A-4	TP 703	M-6
E 704	M-6	L 5	E-7	L 915	M-3	* Q 325	D-2	* Q 730	K-4	RV 205	A-4	TP 704	N-6
E 705	L-1	L 101	B-7	L 916	M-3	* Q 326	D-2	* Q 731	K-4	RV 206	B-4	TP 705	N-6
		L 121	A-7	L 917	L-4	* Q 327	C-2	* Q 732	K-4	RV 402	G-4	TP 706	N-6
FL 201	B-2	L 122	A-6	L 918	J-3	* Q 328	C-2	* Q 733	K-4	RV 403	G-4	TP 707	P-6
FL 202	B-1	L 123	A-7	L 919	J-3	* Q 329	D-2	* Q 734	L-3	RV 406	G-4	TP 708	P-6
FL 501	F-2	L 124	A-6	L 920	J-1	* Q 351	A-3	* Q 735	M-3	RV 407	H-4	TP 709	K-6
FL 701	L-4	L 125	A-6	L 921	J-1	* Q 352	C-1	* Q 736	M-3	RV 408	G-5	TP 710	J-6
		L 181	C-5			* Q 420	E-7	* Q 737	L-3	RV 409	H-5	TP 711	M-6
IC 1	H-1	L 182	C-5	* Q 120	A-7	* Q 421	E-6	* Q 738	L-3	RV 412	H-6	TP 712	M-4
IC 2	H-1	L 183	D-5	* Q 121	A-7	* Q 422	E-5	* Q 739	L-4	RV 413	H-6	TP 713	M-6
IC 3	G-1	L 184	D-7	* Q 122	A-6	* Q 423	E-6	* Q 740	L-5	RV 501	G-4	TP 714	K-4
IC 4	G-1	L 211	B-6	* Q 123	A-7	* Q 424	E-6	* Q 741	L-5	RV 502	G-4	TP 715	K-1
IC 5	E-4	L 212	C-5	* Q 124	A-6	* Q 425	F-6	* Q 742	L-5	RV 503	G-4	TP 716	K-1
IC 6	S-8	L 213	C-5	* Q 125	A-6	* Q 426	F-5	* Q 743	L-5	RV 505	E-3	TP 717	L-1
IC 10	F-7	L 231	C-6	* Q 126	A-5	* Q 427	E-5	* Q 746	L-5	RV 506	G-4		
IC 11	G-7	L 232	B-6	* Q 127	A-6	* Q 428	E-5	* Q 747	L-6	RV 701	M-2		
IC 12	H-7	L 261	B-3	* Q 128	A-5	* Q 461	E-4	* Q 748	L-6	RV 703	M-5		
IC 101	B-6	L 291	B-3	* Q 161	A-5	* Q 462	E-4	* Q 749	K-5	RV 704	N-5		
IC 102	D-6	L 292	A-3	* Q 162	A-5	* Q 463	E-5	* Q 750	K-6	RV 705	N-5		
IC 103	C-6	L 293	A-3	* Q 163	A-5	* Q 464	F-5	* Q 751	K-6	RV 706	R-4		
IC 104	C-7	L 294	D-4	* Q 164	B-5	* Q 465	F-5	* Q 752	K-5	RV 707	R-4		
IC 105	C-7	L 321	D-3	* Q 165	B-5	* Q 466	F-5	* Q 753	K-3	RV 708	P-4		
IC 201	B-3	L 322	D-2	* Q 167	B-5	* Q 467	F-5	* Q 754	K-3	RV 709	P-5		
IC 202	B-4	L 351	D-3	* Q 168	B-5	* Q 468	F-5	* Q 755	K-3	RV 712	L-3		
IC 203	C-4	L 352	D-2										

* : B SIDE

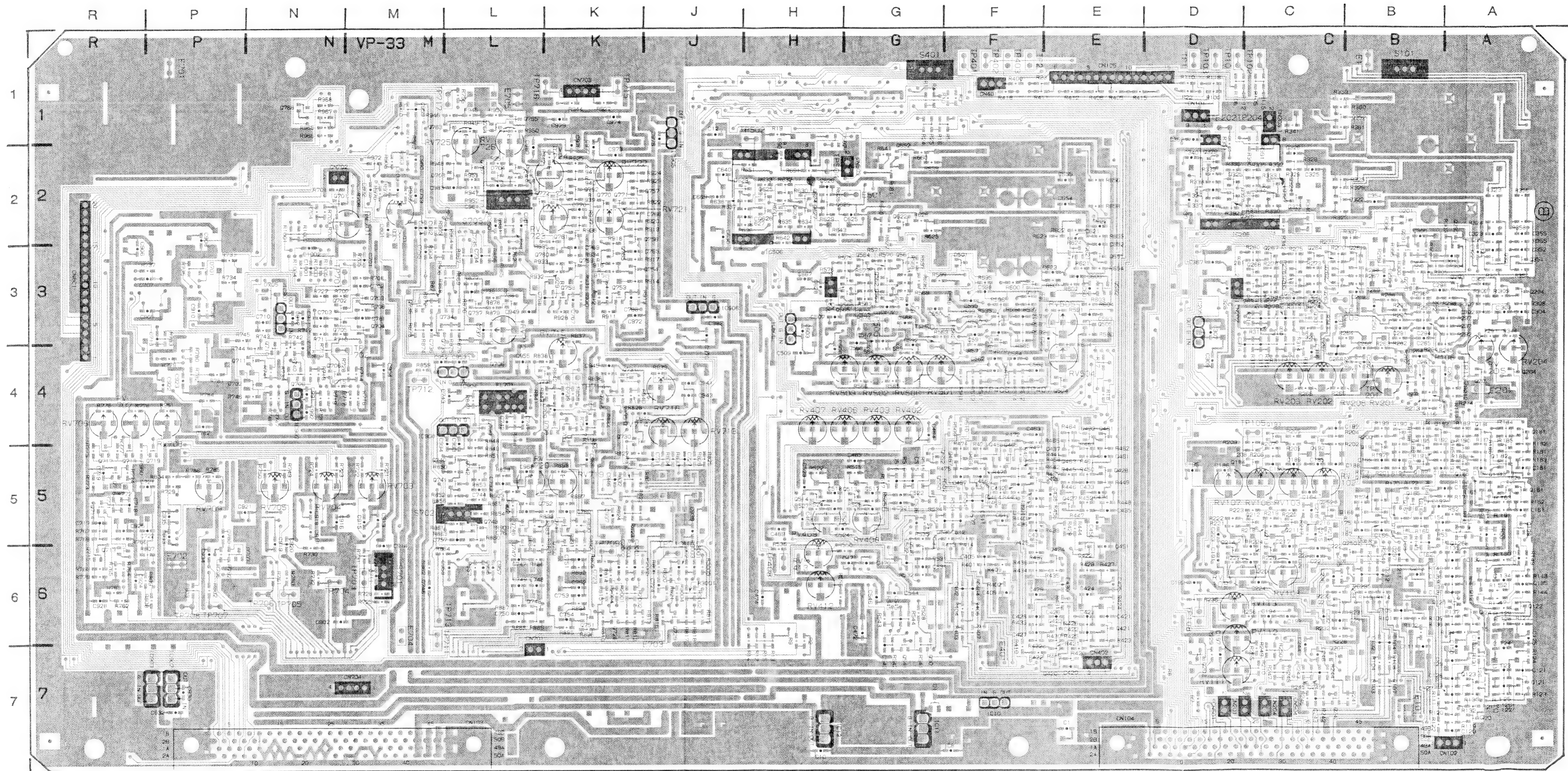




15-3(b)

Serial No.(EK);10651 to 12240

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER
DO-29 ; DROP OUT DETECTOR

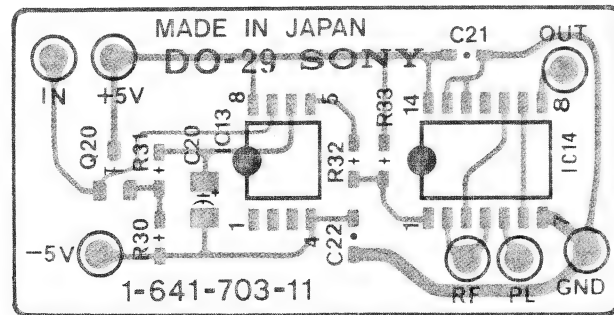
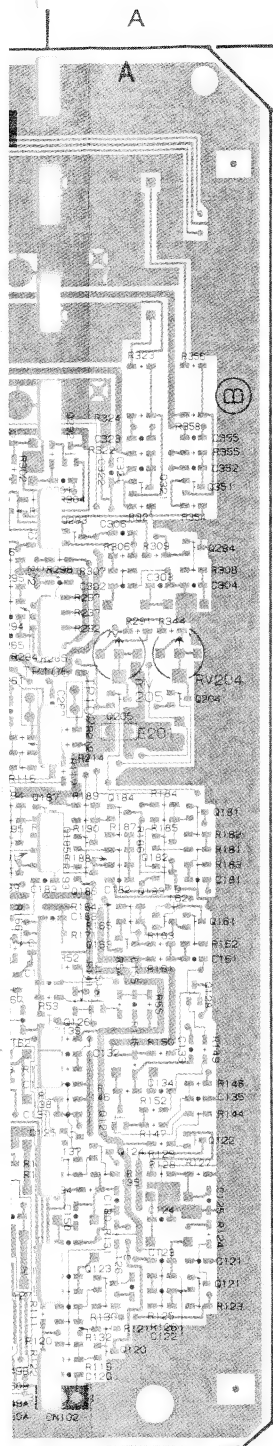


VP-33AP 1-640-031-12 B SIDE

VP-33AP (1-640-032-12)

CN 101	D-1	IC 204	C-2	L 401	F-6	* Q 169	B-5	* Q 501	G-7	* Q 756	K-2	RV 713	J-4
CN 102	A-7	IC 205	D-3	L 421	E-6	* Q 181	A-4	* Q 513	G-5	* Q 757	K-2	RV 714	J-4
CN 103	N-7	IC 206	C-2	L 422	E-6	* Q 182	A-5	* Q 514	H-5	* Q 758	K-3	RV 715	K-4
CN 104	C-7	IC 401	F-5	L 423	F-6	* Q 183	A-5	* Q 515	G-6	* Q 759	K-3	RV 716	J-4
CN 105	E-1	IC 402	H-5	L 424	F-6	* Q 184	A-4	* Q 541	G-7	* Q 760	K-3	RV 718	M-2
CN 201	C-7	IC 403	G-6	L 425	E-5	* Q 185	A-5	* Q 550	G-5	* Q 761	K-2	RV 719	K-5
CN 202	D-3	IC 404	G-6	L 461	G-6	* Q 186	A-5	* Q 552	G-5	* Q 762	K-2	RV 720	L-5
CN 203	C-1	IC 501	F-3	L 462	H-6	* Q 187	B-4	* Q 561	G-3	* Q 763	L-1	RV 721	K-2
CN 204	C-7	IC 502	G-4	L 511	F-6	* Q 188	B-5	* Q 562	G-3	* Q 764	L-1	RV 722	K-2
CN 401	F-1	IC 506	H-2	L 512	G-5	* Q 189	B-5	* Q 563	G-3	* Q 765	L-1	RV 723	K-2
CN 402	E-7	IC 605	H-3	L 513	H-5	* Q 190	B-4	* Q 564	G-3	* Q 766	L-2	RV 724	K-2
CN 501	D-7	IC 701	P-3	L 531	G-5	* Q 191	B-5	* Q 565	G-3	* Q 767	L-2	RV 725	L-1
CN 502	H-3	IC 702	R-3	L 532	F-5	* Q 192	C-4	* Q 566	G-3	* Q 768	N-1	RV 726	L-1
CN 503	G-2	IC 703	R-6	L 561	G-3	* Q 193	C-4	* Q 570	F-3	* Q 770	K-2		
CN 504	C-7	IC 704	M-6	L 591	E-3	* Q 194	C-5	* Q 591	F-3	* Q 771	K-2	S 101	B-1
CN 701	L-1	IC 705	N-6	L 594	H-4	* Q 201	C-7	* Q 592	E-3	* Q 772	L-2	S 401	G-1
CN 702	N-2	IC 706	N-6	L 621	H-3	Q 202	D-7	* Q 621	E-3	* Q 773	K-2	S 701	M-6
CN 703	K-1	IC 707	P-6	L 622	J-3	* Q 204	A-4	* Q 622	G-2	Q 1001	N-2	S 702	L-5
CN 704	M-7	IC 708	P-4	L 651	H-3	* Q 205	A-4	* Q 623	H-2	Q 1002	N-2	S 703	L-2
CN 801	R-3	IC 710	K-5	L 652	J-2	* Q 211	C-5	* Q 624	H-2	Q 1003	N-2		
		IC 711	K-5	L 701	R-5	* Q 212	C-5	* Q 625	H-2	Q 1004	N-3	TP 1	D-1
DL 101	B-5	IC 712	K-4	L 702	P-5	* Q 213	C-6	* Q 626	H-2	Q 1005	N-3	TP 2	F-1
DL 401	F-4	IC 713	L-3	L 703	L-3	* Q 214	D-6	* Q 627	H-2	Q 2001	K-6	TP 101	D-1
		IC 714	L-3	L 704	L-4	* Q 215	C-6	* Q 628	H-2	Q 2002	K-6	TP 102	C-1
* D 1	G-7	IC 715	K-4	L 705	L-6	* Q 241	C-7	* Q 629	H-2	Q 2003	K-6	TP 103	D-1
* D 201	B-2	IC 716	L-6	L 706	L-6	* Q 250	B-6	* Q 701	N-2	Q 2004	K-6	TP 105	C-4
* D 501	F-3	IC 717	M-3	L 707	K-6	* Q 252	B-5	* Q 702	N-3	Q 2005	K-6	TP 106	B-4
D 502	S-8	IC 718	M-2	L 708	K-6	* Q 261	B-3	* Q 703	M-3	Q 3001	J-6	TP 107	A-4
* D 701	P-3	IC 719	M-1	L 709	K-3	* Q 262	C-3	* Q 704	M-3	Q 3002	J-6	TP 108	D-6
* D 702	N-4	IC 720	K-2	L 710	K-3	* Q 263	C-3	* Q 705	N-3	Q 3003	J-6	TP 201	B-4
* D 703	L-2	IC 721	K-2	L 711	P-4	* Q 264	C-3	* Q 706	N-4	Q 3004	J-6	TP 202	D-1
* D 704	L-2	IC 722	N-1	L 712	L-6	* Q 265	C-3	Q 707	M-4	Q 3005	J-6	TP 204	C-1
* D 705	N-3	IC 901	N-3	L 901	M-6	* Q 266	C-3	Q 708	N-4			TP 205	C-3
* D 706	L-4	IC 902	P-7	L 902	M-4	* Q 267	C-3	* Q 709	N-4	RV 102	C-5	TP 401	F-1
* D 707	P-6	IC 903	P-7	L 903	P-2	* Q 268	C-3	* Q 710	N-4	RV 103	C-5	TP 402	F-1
* D 708	K-4	IC 904	L-4	L 904	P-2	* Q 269	C-3	* Q 711	N-4	RV 106	C-5	TP 403	F-1
* D 709	K-4	IC 905	J-1	L 905	R-6	* Q 270	B-3	Q 712	N-4	RV 107	D-5	TP 406	F-4
		IC 906	J-3	L 906	R-6	* Q 291	B-3	* Q 713	R-6	RV 108	C-6	TP 407	F-4
E 1	B-1	IC 907	N-4	L 907	K-5	* Q 292	A-3	* Q 714	R-5	RV 109	C-6	TP 408	H-6
E 101	B-7	IC 908	L-4	L 908	J-5	* Q 293	A-3	* Q 715	R-6	RV 111	D-7	TP 501	G-4
E 201	A-4			L 909	J-4	* Q 294	A-3	* Q 716	R-5	RV 112	D-6	TP 502	J-2
E 401	F-7	L 1	E-7	L 910	J-4	* Q 301	C-3	* Q 717	R-5	RV 113	D-6	TP 504	H-2
E 701	P-1	L 2	L-7	L 911	L-3	* Q 321	A-3	* Q 718	R-5	RV 201	B-4	TP 505	G-3
E 702	R-7	L 3	K-7	L 912	L-3	* Q 322	C-2	* Q 719	P-5	RV 202	C-4	TP 701	M-3
E 703	J-6	L 4	J-7	L 913	K-5	* Q 323	C-2	* Q 728	K-6	RV 203	C-4	TP 702	N-4
E 704	M-6	L 5	E-7	L 914	L-5	* Q 324	C-2	* Q 729	J-6	RV 204	A-4	TP 703	M-6
E 705	L-1	L 101	B-7	L 915	M-3	* Q 325	D-2	* Q 730	K-4	RV 205	A-4	TP 704	N-6
		L 121	A-7	L 916	M-3	* Q 326	D-2	* Q 731	K-4	RV 206	B-4	TP 705	N-6
FL 201	B-2	L 122	A-6	L 917	L-4	* Q 327	C-2	* Q 732	K-4	RV 402	G-4	TP 706	N-6
FL 202	B-1	L 123	A-7	L 918	J-3	* Q 328	C-2	* Q 733	K-4	RV 403	G-4	TP 707	P-6
FL 501	F-2	L 124	A-6	L 919	J-3	* Q 329	D-2	* Q 734	L-3	RV 406	G-4	TP 708	P-6
FL 701	L-4	L 125	A-6	L 920	J-1	* Q 351	A-3	* Q 735	M-3	RV 407	H-4	TP 709	K-6
		L 181	C-5	L 921	J-1	* Q 352	C-1	* Q 736	M-3	RV 408	G-5	TP 710	J-6
IC 1	H-1	L 182	C-5			* Q 420	E-7	* Q 737	L-3	RV 409	H-5	TP 711	M-6
IC 2	H-1	L 183	D-5	* Q 120	A-7	* Q 421	E-6	* Q 738	L-3	RV 412	H-6	TP 712	M-4
IC 3	G-1	L 184	D-7	* Q 121	A-7	* Q 422	E-5	* Q 739	L-4	RV 413	H-6	TP 713	M-6
IC 4	G-1	L 211	B-6	* Q 122	A-6	* Q 423	E-6	* Q 740	L-5	RV 501	G-4	TP 714	K-4
IC 5	E-4	L 212	C-5	* Q 123	A-7	* Q 424	E-6	* Q 741	L-5	RV 502	G-4	TP 715	K-1
IC 6	S-8	L 213	C-5	* Q 124	A-6	* Q 425	F-6	* Q 742	L-5	RV 503	G-4	TP 716	K-1
IC 10	F-7	L 231	C-6	* Q 125	A-6	* Q 426	F-5	* Q 743	L-5	RV 505	E-3	TP 717	L-1
IC 11	G-7	L 232	B-6	* Q 126	A-5	* Q 427	E-5	* Q 746	L-5	RV 506	G-4		
IC 12	H-7	L 261	B-3	* Q 127	A-6	* Q 428	E-5	* Q 747	L-6	RV 701	M-2		
IC 101	B-6	L 291	B-3	* Q 128	A-5	* Q 461	E-4	* Q 748	L-6	RV 703	M-5		
IC 102	D-6	L 292	A-3	* Q 161	A-5	* Q 462	E-4	* Q 749	K-5	RV 704	N-5		
IC 103	C-6	L 293	A-3	* Q 162	A-5	* Q 463	E-5	* Q 750	K-6	RV 705	N-5		
IC 104	C-7	L 294	D-4	* Q 163	A-5	* Q 464	F-5	* Q 751	K-6	RV 706	R-4		
IC 105	C-7	L 321	D-3	* Q 164	B-5	* Q 465	F-5	* Q 752	K-5	RV 707	R-4		
IC 201	B-3	L 322	D-2	* Q 165	B-5	* Q 466	F-5	* Q 753	K-3	RV 708	P-4		
IC 202	B-4	L 351	D-3	* Q 167	B-5	* Q 467	F-5	* Q 754	K-3	RV 709	P-5		
IC 203	C-4	L 352	D-2	* Q 168	B-5	* Q 468	F-5	* Q 755	K-3	RV 712	L-3		

*: B SIDE



DO-29 1-641-703-11 B SIDE

1 40-032-12 B SIDE

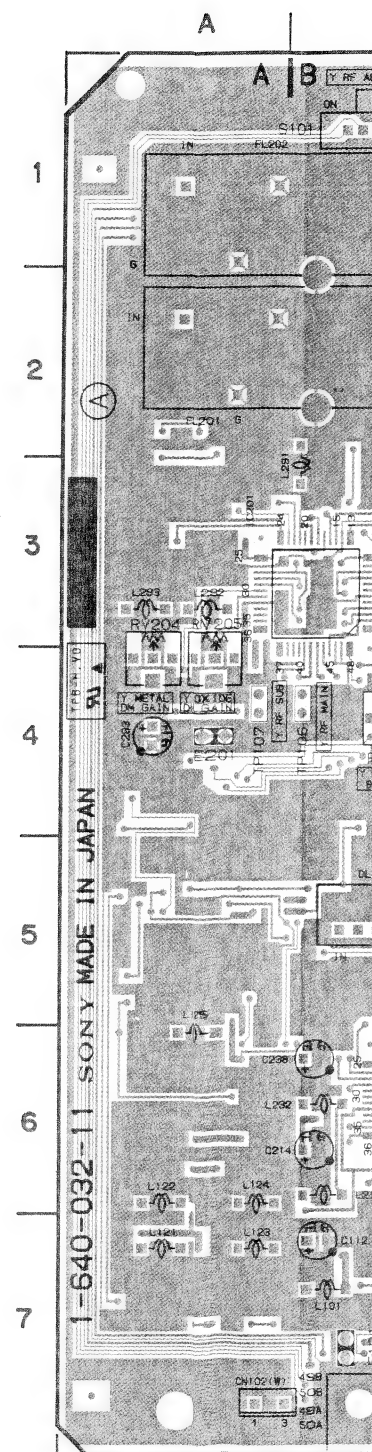
Serial No. (EK) ; 10001 to 10650

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

VP-33AP (1-640-032-11)

CN 102	A-7	IC 403	G-6	L 425	E-5	*Q 185	A-5	*Q 570	F-3	*Q 768	N-1	RV 726	L-1
CN 103	N-7	IC 404	G-6	L 461	G-6	*Q 186	A-5	*Q 571	F-3	*Q 770	K-2		
CN 104	C-7	IC 501	F-3	L 462	H-6	*Q 187	B-4	*Q 591	F-3	*Q 771	K-2	S 101	B-1
CN 105	E-1	IC 502	G-4	L 511	F-6	*Q 188	B-5	*Q 592	E-3	*Q 772	L-2	S 401	G-1
CN 203	C-1	IC 506	H-2	L 512	G-5	*Q 189	B-5	*Q 621	E-3	*Q 773	K-2	S 701	M-6
CN 204	C-7	IC 605	H-3	L 513	H-5	*Q 190	B-4	*Q 622	G-2	Q 1001	N-2	S 702	L-5
CN 401	F-1	IC 701	P-3	L 531	G-5	*Q 191	B-5	*Q 623	H-2	Q 1002	N-2	S 703	L-2
CN 402	E-7	IC 702	R-3	L 532	F-5	*Q 192	C-4	*Q 624	H-2	Q 1003	N-2		
CN 503	G-2	IC 703	R-6	L 561	G-3	*Q 193	C-4	*Q 625	H-2	Q 1004	N-3	TP 1	D-1
CN 504	C-7	IC 704	M-6	L 591	E-3	*Q 194	C-5	*Q 626	H-2	Q 1005	N-3	TP 2	F-1
CN 701	L-7	IC 705	N-6	L 594	H-4	*Q 201	C-7	*Q 627	H-2	Q 2001	K-6	TP 101	D-1
CN 702	N-2	IC 706	N-6	L 621	H-3	*Q 202	D-7	*Q 628	H-2	Q 2002	K-6	TP 102	C-1
CN 703	K-1	IC 707	P-6	L 622	J-3	*Q 204	A-4	*Q 629	H-2	Q 2003	K-6	TP 103	D-1
CN 704	M-7	IC 708	P-4	L 651	H-3	*Q 205	A-4	*Q 701	N-2	Q 2004	K-6	TP 105	C-4
CN 801	R-3	IC 710	K-5	L 652	J-2	*Q 211	C-5	*Q 702	N-3	Q 2005	K-6	TP 106	B-4
		IC 711	K-5	L 701	R-5	*Q 212	C-5	*Q 703	M-3	Q 3001	J-6	TP 107	A-4
DL 101	B-5	IC 712	K-4	L 702	P-5	*Q 213	C-6	*Q 704	M-3	Q 3002	J-6	TP 108	D-6
DL 401	F-4	IC 713	L-3	L 703	L-3	*Q 214	D-6	*Q 705	N-3	Q 3003	J-6	TP 201	B-4
		IC 714	L-3	L 704	L-4	*Q 215	C-6	*Q 706	N-4	Q 3004	J-6	TP 202	D-1
*D 1	G-7	IC 715	K-4	L 705	L-6	*Q 241	C-7	Q 707	M-4	Q 3005	J-6	TP 204	C-1
*D 201	B-2	IC 716	L-6	L 706	L-6	*Q 250	B-6	Q 708	N-4			TP 205	C-3
*D 501	F-3	IC 717	M-3	L 707	K-6	*Q 252	B-5	*Q 709	N-4	RV 102	C-5	TP 401	F-1
D 502	S-8	IC 718	M-2	L 708	K-6	*Q 261	B-3	*Q 710	N-4	RV 103	C-5	TP 402	F-1
*D 701	P-3	IC 719	M-1	L 709	K-3	*Q 262	C-3	*Q 711	N-4	RV 106	C-5	TP 403	F-1
*D 702	N-4	IC 720	K-2	L 710	K-3	*Q 263	C-3	Q 712	N-4	RV 107	D-5	TP 406	F-4
*D 703	L-2	IC 721	K-2	L 711	P-4	*Q 264	C-3	*Q 713	R-6	RV 108	C-6	TP 407	F-4
*D 704	L-2	IC 722	N-1	L 712	L-6	*Q 265	C-3	*Q 714	R-5	RV 109	C-6	TP 408	H-6
*D 705	N-3	IC 901	N-3	L 901	M-6	*Q 266	C-3	*Q 715	R-6	RV 111	D-7	TP 501	G-4
*D 706	L-4	IC 902	P-7	L 902	M-4	*Q 270	B-3	*Q 716	R-5	RV 112	D-6	TP 502	J-2
*D 707	P-6	IC 903	P-7	L 903	P-2	*Q 291	B-3	*Q 717	R-5	RV 113	D-6	TP 504	H-2
*D 708	K-4	IC 904	L-4	L 904	P-2	*Q 292	A-3	*Q 718	R-5	RV 201	B-4	TP 505	G-3
*D 709	K-4	IC 905	J-1	L 905	R-6	*Q 293	A-3	*Q 719	P-5	RV 202	C-4	TP 701	M-3
		IC 906	J-3	L 906	R-6	*Q 294	A-3	*Q 728	K-6	RV 203	C-4	TP 702	N-4
E 1	B-1	IC 907	N-4	L 907	K-5	*Q 321	A-3	*Q 729	J-6	RV 204	A-4	TP 703	M-6
E 101	B-7	IC 908	L-4	L 908	J-5	*Q 322	C-2	*Q 730	K-4	RV 205	A-4	TP 704	N-6
E 201	A-4			L 909	J-4	*Q 323	C-2	*Q 731	K-4	RV 206	B-4	TP 705	N-6
E 401	F-7	L 1	E-7	L 910	J-4	*Q 324	C-2	*Q 732	K-4	RV 402	G-4	TP 706	N-6
E 701	P-1	L 2	L-7	L 911	L-3	*Q 325	D-2	*Q 733	K-4	RV 403	G-4	TP 707	P-6
E 702	R-7	L 3	K-7	L 912	L-3	*Q 326	D-2	*Q 734	L-3	RV 406	G-4	TP 708	P-6
E 703	J-6	L 4	J-7	L 913	K-5	*Q 327	C-2	*Q 735	M-3	RV 407	H-4	TP 709	K-6
E 704	M-6	L 5	E-7	L 914	L-5	*Q 328	C-2	*Q 736	M-3	RV 408	G-5	TP 710	J-6
E 705	L-1	L 101	B-7	L 915	M-3	*Q 329	D-2	*Q 737	L-3	RV 409	H-5	TP 711	M-6
		L 121	A-7	L 916	M-3	*Q 351	A-3	*Q 738	L-3	RV 412	H-6	TP 712	M-4
FL 201	B-2	L 122	A-6	L 917	L-4	*Q 352	C-1	*Q 739	L-4	RV 413	H-6	TP 713	M-6
FL 202	B-1	L 123	A-7	L 918	J-3	*Q 420	E-7	*Q 740	L-5	RV 501	G-4	TP 714	K-4
FL 501	F-2	L 124	A-6	L 919	J-3	*Q 421	E-6	*Q 741	L-5	RV 502	G-4	TP 715	K-1
FL 701	L-4	L 125	A-6	L 920	J-1	*Q 422	E-5	*Q 742	L-5	RV 503	G-4	TP 716	K-1
		L 181	C-5	L 921	J-1	*Q 423	E-6	*Q 743	L-5	RV 505	E-3	TP 717	L-1
		L 182	C-5			*Q 424	E-6	*Q 746	L-5	RV 506	G-4		
IC 1	H-1	L 183	D-5	*Q 120	A-7	*Q 425	F-6	*Q 747	L-6	RV 701	M-2		
IC 2	H-1	L 184	D-7	*Q 121	A-7	*Q 426	F-5	*Q 748	L-6	RV 703	M-5		
IC 3	G-1	L 211	B-6	*Q 122	A-6	*Q 427	E-5	*Q 749	K-5	RV 704	N-5		
IC 4	G-1	L 212	C-5	*Q 123	A-7	*Q 428	E-5	*Q 750	K-6	RV 705	N-5		
IC 5	E-4	L 213	C-5	*Q 124	A-6	*Q 461	E-4	*Q 751	K-6	RV 706	R-4		
IC 6	S-8	L 231	C-6	*Q 125	A-6	*Q 462	E-4	*Q 752	K-5	RV 707	R-4		
IC 10	F-7	L 232	B-6	*Q 126	A-5	*Q 463	E-5	*Q 753	K-3	RV 708	P-4		
IC 11	G-7	L 261	B-3	*Q 127	A-6	*Q 464	F-5	*Q 754	K-3	RV 709	P-5		
IC 12	H-7	L 291	B-3	*Q 128	A-5	*Q 465	F-5	*Q 755	K-3	RV 712	L-3		
IC 101	B-6	L 292	A-3	*Q 161	A-5	*Q 466	F-5	*Q 756	K-2	RV 713	J-4		
IC 102	D-6	L 293	A-3	*Q 162	A-5	*Q 467	F-5	*Q 757	K-2	RV 714	J-4		
IC 103	C-6	L 294	D-4	*Q 163	A-5	*Q 468	F-5	*Q 758	K-3	RV 715	K-4		
IC 104	C-7	L 321	D-3	*Q 164	B-5	*Q 501	G-7	*Q 759	K-3	RV 716	J-4		
IC 105	C-7	L 322	D-2	*Q 165	B-5	*Q 513	G-5	*Q 760	K-3	RV 718	M-2		
IC 201	B-3	L 351	D-3	*Q 167	B-5	*Q 514	H-5	*Q 761	K-2	RV 719	K-5		
IC 202	B-4	L 352	D-2	*Q 168	B-5	*Q 515	G-6	*Q 762	K-2	RV 720	L-5		
IC 203	C-4	L 401	F-6	*Q 169	B-5	*Q 541	G-7	*Q 763	L-1	RV 721	K-2		
IC 204	C-2	L 421	E-6	*Q 181	A-4	*Q 550	G-5	*Q 764	L-1	RV 722	K-2		
IC 205	D-3	L 422	E-6	*Q 182	A-5	*Q 552	G-5	*Q 765	L-1	RV 723	K-2		
IC 206	C-2	L 423	F-6	*Q 183	A-5	*Q 561	G-3	*Q 766	L-2	RV 724	K-2		
IC 401	F-5	L 424	F-6	*Q 184	A-4	*Q 563	G-3	*Q 767	L-2	RV 725	L-1		
IC 402	H-5												

* : B SIDE

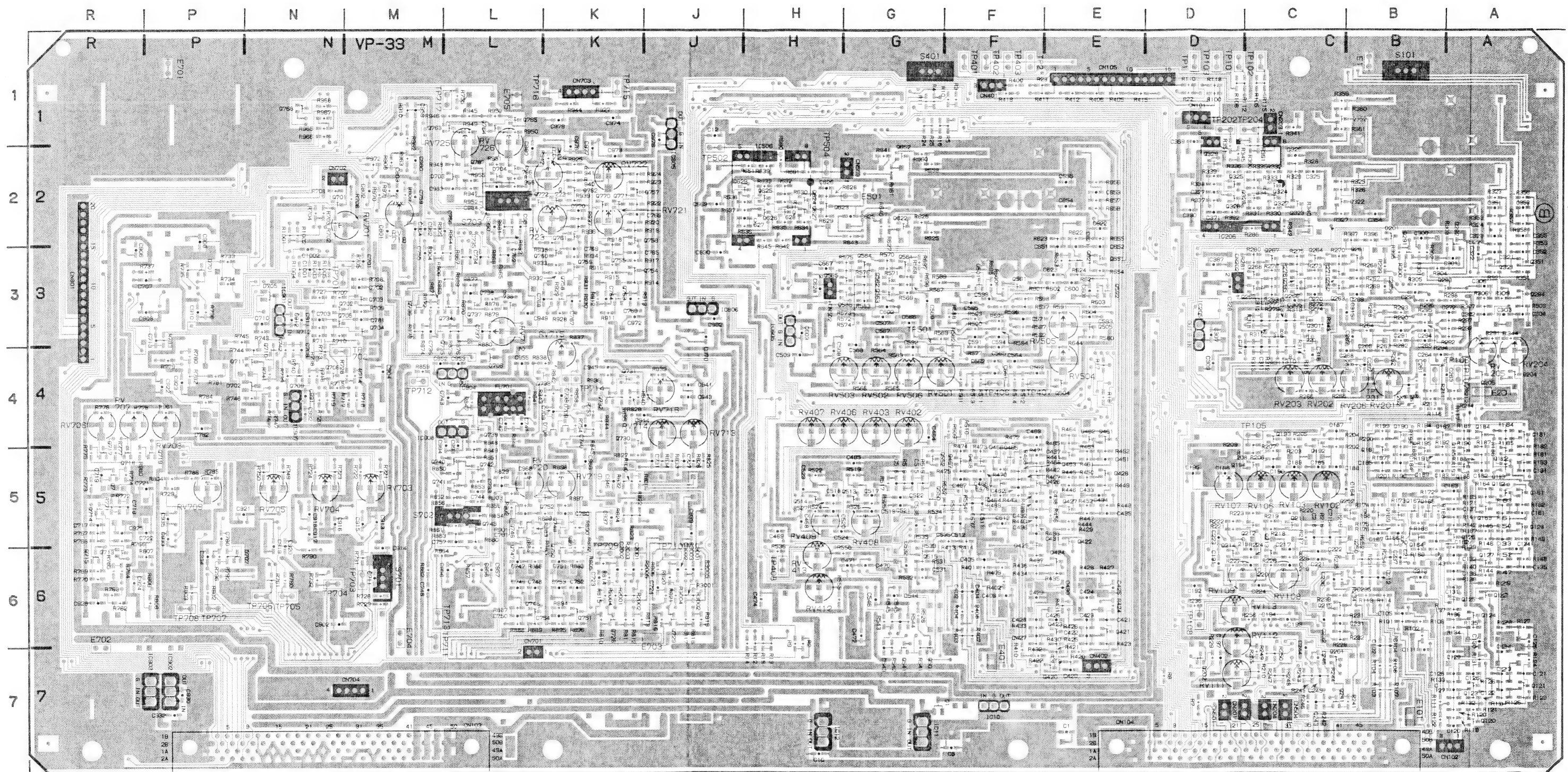




15-3(a)

Serial No. (EK); 10001 to 10650

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER
DO-29 ; DROP OUT DETECTOR

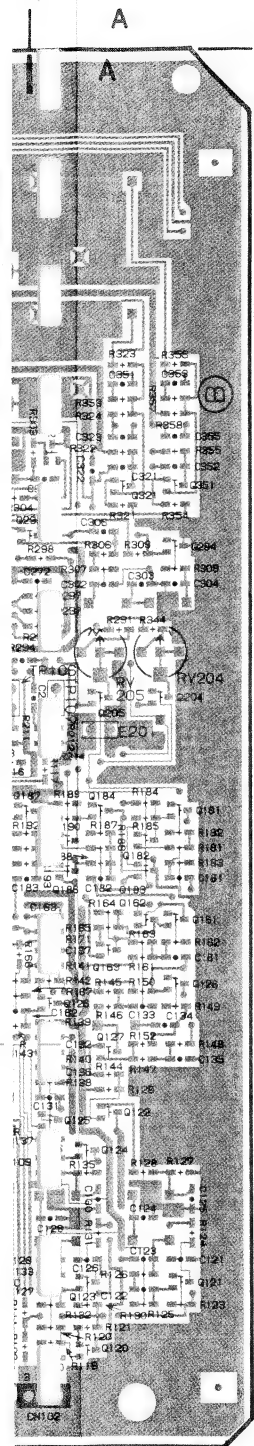


VP-33AP 1-640-032-1L B SIDE

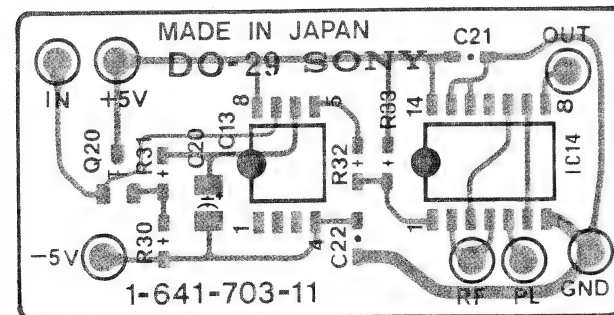
VP-33AP (1-640-032-11)

CN 102	A-7	IC 403	G-6	L 425	E-5	*Q 185	A-5	*Q 570	F-3	*Q 768	N-1	RV 726	L-1
CN 103	N-7	IC 404	G-6	L 461	G-6	*Q 186	A-5	*Q 571	F-3	*Q 770	K-2	S 101	B-1
CN 104	C-7	IC 501	F-3	L 462	H-6	*Q 187	B-4	*Q 591	F-3	*Q 771	K-2	S 401	G-1
CN 105	E-1	IC 502	G-4	L 511	F-6	*Q 188	B-5	*Q 592	E-3	*Q 772	L-2	S 701	M-6
CN 203	C-1	IC 506	H-2	L 512	G-5	*Q 189	B-5	*Q 621	E-3	*Q 773	K-2	S 702	L-5
CN 204	C-7	IC 605	H-3	L 513	H-5	*Q 190	B-4	*Q 622	G-2	Q 1001	N-2	S 703	L-2
CN 401	F-1	IC 701	P-3	L 531	G-5	*Q 191	B-5	*Q 623	H-2	Q 1002	N-2		
CN 402	E-7	IC 702	R-3	L 532	F-5	*Q 192	C-4	*Q 624	H-2	Q 1003	N-2	TP 1	D-1
CN 503	G-2	IC 703	R-6	L 561	G-3	*Q 193	C-4	*Q 625	H-2	Q 1004	N-3	TP 2	F-1
CN 504	C-7	IC 704	M-6	L 591	E-3	*Q 194	C-5	*Q 626	H-2	Q 1005	N-3	TP 101	D-1
CN 701	L-7	IC 705	N-6	L 594	H-4	*Q 201	C-7	*Q 627	H-2	Q 2001	K-6	TP 102	C-1
CN 702	N-2	IC 706	N-6	L 621	H-3	*Q 202	D-7	*Q 628	H-2	Q 2002	K-6	TP 103	D-1
CN 703	K-1	IC 707	P-6	L 622	J-3	*Q 204	A-4	*Q 629	H-2	Q 2003	K-6	TP 105	C-4
CN 704	M-7	IC 708	P-4	L 651	H-3	*Q 205	A-4	*Q 701	N-2	Q 2004	K-6	TP 106	B-4
CN 801	R-3	IC 710	K-5	L 652	J-2	*Q 211	C-5	*Q 702	N-3	Q 2005	K-6	TP 107	A-4
		IC 711	K-5	L 701	R-5	*Q 212	C-5	*Q 703	M-3	Q 3001	J-6	TP 108	D-6
DL 101	B-5	IC 712	K-4	L 702	P-5	*Q 213	C-6	*Q 704	M-3	Q 3002	J-6	TP 201	B-4
DL 401	F-4	IC 713	L-3	L 703	L-3	*Q 214	D-6	*Q 705	N-3	Q 3003	J-6	TP 202	D-1
		IC 714	L-3	L 704	L-4	*Q 215	C-6	*Q 706	N-4	Q 3004	J-6	TP 204	C-1
*D 1	G-7	IC 715	K-4	L 705	L-6	*Q 241	C-7	Q 707	M-4	Q 3005	J-6	TP 205	C-3
*D 201	B-2	IC 716	L-6	L 706	L-6	*Q 250	B-6	Q 708	N-4			TP 401	F-1
*D 501	F-3	IC 717	M-3	L 707	K-6	*Q 252	B-5	*Q 709	N-4	RV 102	C-5	TP 402	F-1
D 502	S-8	IC 718	M-2	L 708	K-6	*Q 261	B-3	*Q 710	N-4	RV 103	C-5	TP 403	F-1
*D 701	P-3	IC 719	M-1	L 709	K-3	*Q 262	C-3	*Q 711	N-4	RV 106	C-5	TP 406	F-4
*D 702	N-4	IC 720	K-2	L 710	K-3	*Q 263	C-3	Q 712	N-4	RV 107	D-5	TP 407	F-4
*D 703	L-2	IC 721	K-2	L 711	P-4	*Q 264	C-3	*Q 713	R-6	RV 108	C-6	TP 408	H-6
*D 704	L-2	IC 722	N-1	L 712	L-6	*Q 265	C-3	*Q 714	R-5	RV 109	C-6	TP 501	G-4
*D 705	N-3	IC 901	N-3	L 901	M-6	*Q 266	C-3	*Q 715	R-6	RV 111	D-7	TP 502	J-2
*D 706	L-4	IC 902	P-7	L 902	M-4	*Q 270	B-3	*Q 716	R-5	RV 112	D-6	TP 504	H-2
*D 707	P-6	IC 903	P-7	L 903	P-2	*Q 291	B-3	*Q 717	R-5	RV 113	D-6	TP 505	G-3
*D 708	K-4	IC 904	L-4	L 904	P-2	*Q 292	A-3	*Q 718	R-5	RV 201	B-4	TP 701	M-3
*D 709	K-4	IC 905	J-1	L 905	R-6	*Q 293	A-3	*Q 719	P-5	RV 202	C-4	TP 702	N-4
		IC 906	J-3	L 906	R-6	*Q 294	A-3	*Q 728	K-6	RV 203	C-4	TP 703	M-6
E 1	B-1	IC 907	N-4	L 907	K-5	*Q 321	A-3	*Q 729	J-6	RV 204	A-4	TP 704	N-6
E 101	B-7	IC 908	L-4	L 908	J-5	*Q 322	C-2	*Q 730	K-4	RV 205	A-4	TP 705	N-6
E 201	A-4			L 909	J-4	*Q 323	C-2	*Q 731	K-4	RV 206	B-4	TP 706	N-6
E 401	F-7	L 1	E-7	L 910	J-4	*Q 324	C-2	*Q 732	K-4	RV 402	G-4	TP 707	P-6
E 701	P-1	L 2	L-7	L 911	L-3	*Q 325	D-2	*Q 733	K-4	RV 403	G-4	TP 708	P-6
E 702	R-7	L 3	K-7	L 912	L-3	*Q 326	D-2	*Q 734	L-3	RV 406	G-4	TP 709	K-6
E 703	J-6	L 4	J-7	L 913	K-5	*Q 327	C-2	*Q 735	M-3	RV 407	H-4	TP 710	J-6
E 704	M-6	L 5	E-7	L 914	L-5	*Q 328	C-2	*Q 736	M-3	RV 408	G-5	TP 711	M-6
E 705	L-1	L 101	B-7	L 915	M-3	*Q 329	D-2	*Q 737	L-3	RV 409	H-5	TP 712	M-4
		L 121	A-7	L 916	M-3	*Q 351	A-3	*Q 738	L-3	RV 412	H-6	TP 713	M-6
FL 201	B-2	L 122	A-6	L 917	L-4	*Q 352	C-1	*Q 739	L-4	RV 413	H-6	TP 714	K-4
FL 202	B-1	L 123	A-7	L 918	J-3	*Q 420	E-7	*Q 740	L-5	RV 501	G-4	TP 715	K-1
FL 501	F-2	L 124	A-6	L 919	J-3	*Q 421	E-6	*Q 741	L-5	RV 502	G-4	TP 716	K-1
FL 701	L-4	L 125	A-6	L 920	J-1	*Q 422	E-5	*Q 742	L-5	RV 503	G-4	TP 717	L-1
		L 181	C-5	L 921	J-1	*Q 423	E-6	*Q 743	L-5	RV 505	E-3		
IC 1	H-1	L 182	C-5			*Q 424	E-6	*Q 746	L-5	RV 506	G-4		
IC 2	H-1	L 183	D-5	*Q 120	A-7	*Q 425	F-6	*Q 747	L-6	RV 701	M-2		
IC 3	G-1	L 184	D-7	*Q 121	A-7	*Q 426	F-5	*Q 748	L-6	RV 703	M-5		
IC 4	G-1	L 211	B-6	*Q 122	A-6	*Q 427	E-5	*Q 749	K-5	RV 704	N-5		
IC 5	E-4	L 212	C-5	*Q 123	A-7	*Q 428	E-5	*Q 750	K-6	RV 705	N-5		
IC 6	S-8	L 213	C-5	*Q 124	A-6	*Q 461	E-4	*Q 751	K-6	RV 706	R-4		
IC 10	F-7	L 231	C-6	*Q 125	A-6	*Q 462	E-4	*Q 752	K-5	RV 707	R-4		
IC 11	G-7	L 232	B-6	*Q 126	A-5	*Q 463	E-5	*Q 753	K-3	RV 708	P-4		
IC 12	H-7	L 261	B-3	*Q 127	A-6	*Q 464	F-5	*Q 754	K-3	RV 709	P-5		
IC 101	B-6	L 291	B-3	*Q 128	A-5	*Q 465	F-5	*Q 755	K-3	RV 712	L-3		
IC 102	D-6	L 292	A-3	*Q 161	A-5	*Q 466	F-5	*Q 756	K-2	RV 713	J-4		
IC 103	C-6	L 293	A-3	*Q 162	A-5	*Q 467	F-5	*Q 757	K-2	RV 714	J-4		
IC 104	C-7	L 294	D-4	*Q 163	A-5	*Q 468	F-5	*Q 758	K-3	RV 715	K-4		
IC 105	C-7	L 321	D-3	*Q 164	B-5	*Q 501	G-7	*Q 759	K-3	RV 716	J-4		
IC 201	B-3	L 322	D-2	*Q 165	B-5	*Q 513	G-5	*Q 760	K-3	RV 718	M-2		
IC 202	B-4	L 351	D-3	*Q 167	B-5	*Q 514	H-5	*Q 761	K-2	RV 719	K-5		
IC 203	C-4	L 352	D-2	*Q 168	B-5	*Q 515	G-6	*Q 762	K-2	RV 720	L-5		
IC 204	C-2	L 401	F-6	*Q 169	B-5	*Q 541	G-7	*Q 763	L-1	RV 721	K-2		
IC 205	D-3	L 421	E-6	*Q 181	A-4	*Q 550	G-5	*Q 764	L-1	RV 722	K-2		
IC 206	C-2	L 422	E-6	*Q 182	A-5	*Q 552	G-5	*Q 765	L-1	RV 723	K-2		
IC 401	F-5	L 423	F-6	*Q 183	A-5	*Q 561	G-3	*Q 766	L-2	RV 724	K-2		
IC 402	H-5	L 424	F-6	*Q 184	A-4	*Q 563	G-3	*Q 767	L-2	RV 725	L-1		

* : B SIDE



-6 1-032-11 B SIDE



Serial No. (EK); 14586 and higher
Serial No. (UC); 10011 and higher

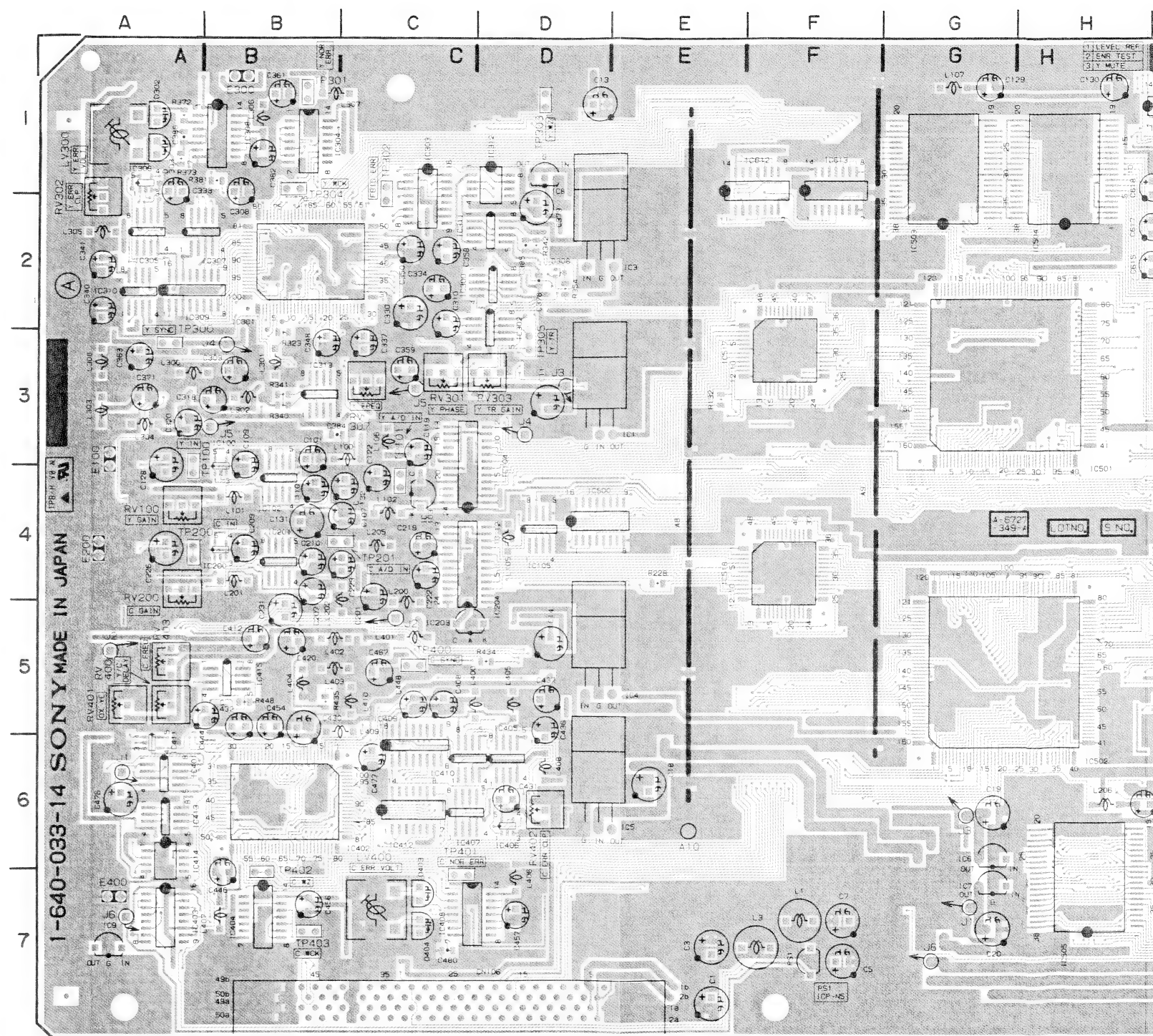
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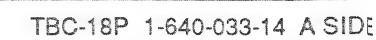
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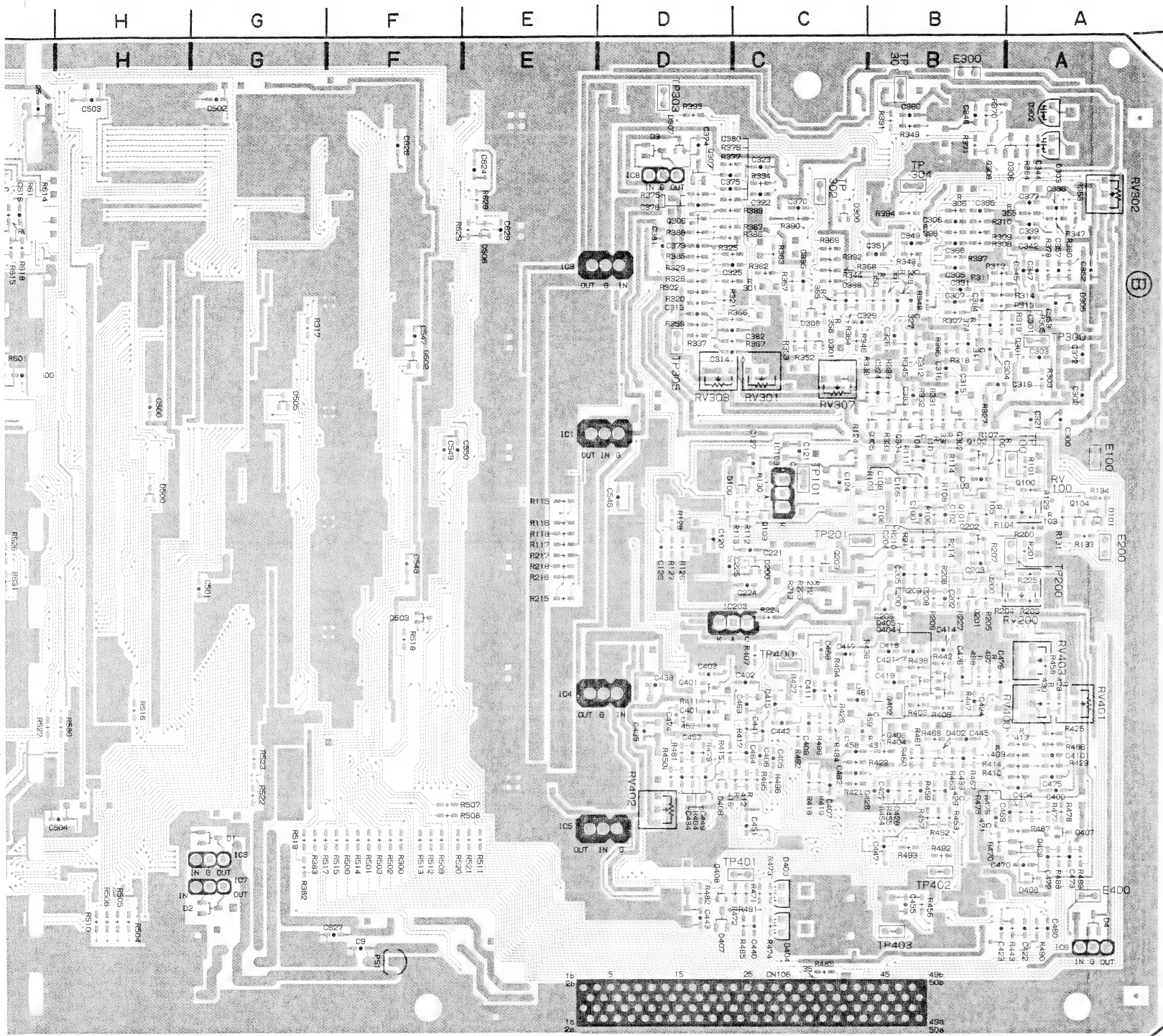
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CN 2	M-7	IC 9	A-7	IC 702	P-1	L 506	K-2	RV 500	K-1
CN 105	N-7	IC 100	B-4	IC 703	P-2	L 508	N-1	RV 501	L-1
CN 106	D-7	IC 102	B-4	IC 704	N-6	L 700	P-6	RV 700	P-7
		IC 103	D-4	IC 705	R-2	L 701	R-6	RV 702	P-1
		IC 104	D-4	IC 707	P-6	L 702	M-7	RV 703	P-1
CP 700	R-4	IC 105	C-4	IC 709	R-3	L 703	M-6	RV 704	P-1
CP 701	R-5	IC 200	B-4	IC 710	N-6	L 704	P-5	RV 705	P-7
		IC 201	B-4	IC 711	P-5	L 705	M-7	RV 706	M-1
*D 1	A-4	IC 203	D-5	IC 712	M-6	L 706	M-6	RV 707	M-1
*D 2	A-4	IC 204	D-5	IC 713	L-6	L 708	P-4	RV 708	N-1
*D 3	D-1	IC 300	D-2	IC 714	N-6	L 717	P-3	RV 709	N-5
*D 4	A-7	IC 301	B-2	IC 715	P-4	L 718	P-3	RV 710	R-1
*D 100	D-4	IC 302	D-2	IC 716	P-5	L 719	P-5	RV 711	P-6
*D 101	A-4	IC 304	B-1	IC 717	P-2				
*D 200	D-5	IC 305	A-2	IC 718	N-5	*Q 100	B-4	S 700	J-1
*D 300	C-2	IC 306	A-1	IC 719	N-4	*Q 101	B-4	TP 100	B-4
*D 301	C-3	IC 307	B-2	IC 720	N-4	*Q 102	B-3	TP 101	C-4
D 302	A-1	IC 308	B-1	IC 721	P-4	*Q 103	B-4	TP 200	B-4
D 303	A-1	IC 309	A-2	IC 722	M-5	*Q 104	A-4	TP 201	C-4
*D 305	A-2	IC 310	A-2	IC 723	L-5	*Q 200	B-4	TP 300	A-3
*D 306	A-1	IC 311	D-2	IC 724	L-5	*Q 201	B-5	TP 301	D-1
*D 307	D-1	IC 312	D-1	IC 725	K-4	*Q 202	B-4	TP 302	C-2
D 308	D-2	IC 313	B-3	IC 726	R-2	*Q 203	B-4	TP 303	D-1
*D 309	C-2	IC 401	A-6	IC 727	P-6	*Q 301	B-3	TP 304	B-1
*D 402	B-6	IC 402	B-6	IC 728	R-3	*Q 302	B-3	TP 305	D-3
D 403	C-7	IC 403	A-7	IC 729	R-6	*Q 304	B-3	TP 400	C-5
D 404	C-7	IC 404	B-7	*IC 800	P-3	*Q 305	B-3	TP 401	C-7
*D 406	D-6	IC 405	D-6	IC 801	R-4	*Q 306	D-2	TP 402	B-7
*D 407	D-7	IC 406	D-6	IC 802	R-5	*Q 307	D-1	TP 403	B-7
*D 408	A-7	IC 407	D-6			*Q 308	B-1	TP 500	L-1
*D 500	G-4	IC 408	C-7	LV 300	A-1	*Q 401	D-5	TP 501	L-1
*D 501	K-2	IC 409	C-6	LV 400	C-7	*Q 402	B-5	TP 502	M-1
*D 502	F-3	IC 410	D-6			*Q 404	C-6	TP 700	N-7
*D 503	E-5	IC 411	A-6	L 1	F-7	*Q 405	C-6	TP 701	N-4
*D 504	K-3	IC 412	C-6	L 2	K-7	*Q 406	C-5	TP 702	N-5
*D 600	J-2	IC 413	A-6	L 3	F-7	*Q 407	A-6	TP 703	R-5
*D 601	J-2	IC 414	A-6	L 4	K-7	*Q 408	D-7	TP 704	M-6
*D 602	J-2	IC 415	B-5	L 5	K-7	*Q 428	B-6	TP 705	N-7
*D 700	R-6	IC 500	D-4	L 100	C-3	*Q 500	L-3		
*D 701	P-6	IC 501	G-3	L 101	B-4	*Q 501	L-2		
*D 702	P-6	IC 502	G-5	L 102	C-4	*Q 502	M-2		
*D 706	R-3	IC 503	G-2	L 105	C-4	*Q 503	M-2		
		IC 504	H-2	L 106	C-4	*Q 600	J-2		
		IC 505	H-7	L 107	G-1	*Q 601	J-2		
E100	A-4	IC 506	J-7	L 200	C-5	*Q 602	J-1		
E200	A-4	IC 507	J-4	L 201	B-4	*Q 700	P-7		
E300	B-1	IC 508	J-5	L 202	C-5	*Q 702	P-7		
E400	A-6	IC 509	P-2	L 205	C-4	*Q 703	R-6		
E500	L-1	IC 510	N-2	L 206	G-6	*Q 704	R-6		
E501	K-2	IC 511	N-2	L 300	B-3	*Q 705	R-6		
E700	P-6	IC 512	N-3	L 301	C-3	*Q 706	N-7		
E701	R-6	IC 513	L-3	L 302	B-3	*Q 707	R-6		
E702	R-4	IC 514	L-3	L 303	A-3	*Q 708	P-6		
		IC 515	L-3	L 304	A-3	*Q 709	R-2		
*FL 1	L-6	IC 516	N-3	L 306	A-1	*Q 714	K-5		
*FL 2	K-5	IC 517	F-3	L 307	C-1	*Q 715	L-5		
*FL 3	L-5	IC 518	F-5	L 308	A-3	*Q 717	R-7		
FL 500	L-2	IC 601	H-2	L 400	D-5	*Q 718	R-7		
FL 501	M-2	IC 602	K-3	L 401	C-5	*Q 719	R-7		
FL 502	M-2	IC 603	J-2	L 402	B-5				
FL 600	J-3	IC 605	J-1	L 403	B-5	RV 100	B-4		
FL 700	K-5	IC 607	J-2	L 404	C-5	RV 200	B-4		
		IC 608	H-1	L 405	D-5	RV 301	C-3		
IC 1	E-3	IC 609	H-2	L 406	D-7	RV 302	A-2		
IC 2	K-7	IC 610	J-1	L 407	B-7	RV 303	D-3		
IC 3	E-2	IC 611	J-1	L 408	D-6	RV 307	C-3		
IC 4	E-5	IC 612	E-2	L 409	B-5	RV 400	A-5		
IC 5	E-6	IC 613	F-2	L 410	B-5	RV 401	A-5		
IC 6	A-4	IC 700	P-6	L 503	L-3	RV 402	D-6		
IC 7	A-5								

* : B SIDE





TBC-18P 1-640-033-14 B SIDE



TBC-18P 1-640-033-14 B SIDE

TBC-18P (1-640-033-14)

CN 1	M-1	IC 8	D-1	IC 701	M-6	L 504	M-3	RV 403	A-5
CN 2	M-7	IC 9	A-7	IC 702	P-1	L 506	K-2	RV 500	K-1
CN 105	N-7	IC 100	B-4	IC 703	P-2	L 508	N-1	RV 501	L-1
CN 106	D-7	IC 102	B-4	IC 704	N-6	L 700	P-6	RV 700	P-7
		IC 103	D-4	IC 705	R-2	L 701	R-6	RV 702	P-1
CP 700	R-4	IC 104	D-4	IC 707	P-6	L 702	M-7	RV 703	P-1
CP 701	R-5	IC 105	C-4	IC 709	R-3	L 703	M-6	RV 704	P-1
		IC 200	B-4	IC 710	N-6	L 704	P-5	RV 705	N-7
*D 1	A-4	IC 201	B-4	IC 711	P-5	L 705	M-7	RV 706	M-1
*D 2	A-4	IC 203	D-5	IC 712	M-6	L 706	M-6	RV 707	M-1
*D 3	D-1	IC 204	D-5	IC 713	L-6	L 708	P-4	RV 708	M-1
*D 4	A-7	IC 300	D-2	IC 714	N-6	L 717	P-3	RV 709	P-5
*D 100	D-4	IC 301	B-2	IC 715	P-4	L 718	P-3	RV 710	R-1
*D 101	A-4	IC 302	D-2	IC 716	P-5	L 719	P-5	RV 711	R-5
*D 200	D-5	IC 304	B-1	IC 717	P-2				
*D 300	C-2	IC 305	A-2	IC 718	N-5	*Q 100	B-4	S 700	J-1
*D 301	C-3	IC 306	A-1	IC 719	N-4	*Q 101	B-4		
D 302	A-1	IC 307	B-2	IC 720	N-4	*Q 102	B-3	TP 100	A-4
D 303	A-1	IC 308	B-1	IC 721	P-4	*Q 103	B-4	TP 101	C-4
*D 305	A-2	IC 309	A-2	IC 722	M-5	*Q 104	A-4	TP 200	A-4
*D 306	A-1	IC 310	A-2	IC 723	L-5	*Q 200	B-4	TP 201	B-4
*D 307	D-1	IC 311	D-2	IC 724	L-5	*Q 201	B-5	TP 300	A-3
D 308	D-2	IC 312	D-1	IC 725	K-4	*Q 202	B-4	TP 301	B-1
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*D 402	B-6	IC 401	A-6	IC 727	P-6	*Q 301	B-3	TP 303	D-1
D 403	C-7	IC 402	B-6	IC 728	R-3	*Q 302	B-3	TP 304	B-1
D 404	C-7	IC 403	A-7	IC 729	R-6	*Q 304	B-3	TP 305	D-3
*D 406	D-6	IC 404	B-7	*IC 800	P-3	*Q 305	B-3	TP 400	C-5
*D 407	D-7	IC 405	D-6	IC 801	R-4	*Q 306	D-2	TP 401	C-7
*D 408	A-7	IC 406	D-6	IC 802	R-5	*Q 307	D-1	TP 402	B-7
*D 500	G-4	IC 407	D-6			*Q 308	B-1	TP 403	B-7
*D 501	K-2	IC 408	C-7	LV 300	A-1	*Q 401	D-5	TP 500	L-1
*D 502	F-3	IC 409	C-6	LV 400	C-7	*Q 402	B-5	TP 501	L-1
*D 503	E-5	IC 410	D-6			*Q 404	C-6	TP 502	M-1
*D 504	K-3	IC 411	A-6	L 1	F-7	*Q 405	C-6	TP 700	N-7
*D 506	E-2	IC 412	C-6	L 2	K-7	*Q 406	C-5	TP 701	N-4
*D 600	J-2	IC 413	A-6	L 3	F-7	*Q 407	A-6	TP 702	N-5
*D 601	J-2	IC 414	A-6	L 4	K-7	*Q 408	D-7	TP 703	P-5
*D 602	J-2	IC 415	B-5	L 5	K-7	*Q 428	B-6	TP 704	M-6
*D 700	R-6	IC 500	D-4	L 100	C-3	*Q 500	L-3	TP 705	N-7
*D 701	P-6	IC 501	G-3	L 101	B-4	*Q 501	L-2		
*D 702	P-6	IC 502	G-5	L 102	C-4	*Q 502	M-2		
*D 706	R-3	IC 503	G-2	L 105	C-4	*Q 503	M-2		
		IC 504	H-2	L 106	C-4	*Q 600	J-2		
		IC 505	H-7	L 107	G-1	*Q 601	J-2		
E100	A-4	IC 506	J-7	L 200	C-5	*Q 602	J-1		
E200	A-4	IC 507	J-4	L 201	B-4	*Q 700	P-7		
E300	B-1	IC 508	J-5	L 202	C-5	*Q 702	P-7		
E400	A-6	IC 509	P-2	L 205	C-4	*Q 703	R-6		
E500	L-1	IC 510	N-2	L 206	G-6	*Q 704	R-6		
E501	K-2	IC 511	N-2	L 300	B-3	*Q 705	R-6		
E700	P-6	IC 512	N-3	L 301	C-3	*Q 706	N-7		
E701	R-6	IC 513	L-3	L 302	B-3	*Q 707	R-6		
E702	R-4	IC 514	L-3	L 303	A-3	*Q 708	P-6		
		IC 515	L-3	L 304	A-3	*Q 709	R-2		
*FL 1	L-6	IC 516	N-3	L 306	B-1	*Q 714	L-5		
*FL 2	K-5	IC 517	F-3	L 307	C-1	*Q 715	L-5		
*FL 3	L-5	IC 518	F-5	L 308	A-3	*Q 717	R-7		
FL 500	L-2	IC 601	H-2	L 400	D-5	*Q 718	R-7		
FL 501	M-2	IC 602	K-3	L 401	C-5	*Q 719	R-7		
FL 502	M-2	IC 603	J-2	L 402	B-5				
FL 600	J-3	IC 605	J-1	L 403	B-5	RV 100	B-4		
FL 700	K-5	IC 607	J-2	L 404	C-5	RV 200	B-4		
		IC 608	H-1	L 405	D-5	RV 301	C-3		
IC 1	E-3	IC 609	H-2	L 406	D-7	RV 302	A-2		
IC 2	K-7	IC 610	J-1	L 407	B-7	RV 303	D-3		
IC 3	E-2	IC 611	J-1	L 408	D-6	RV 307	C-3		
IC 4	E-5	IC 612	E-2	L 409	B-5	RV 400	A-5		
IC 5	E-6	IC 613	F-2	L 410	B-5	RV 401	A-5		
IC 6	A-4	IC 700	P-6	L 503	L-3	RV 402	D-6		
IC 7	A-5								

* : B SIDE

Serial No.(EK);11151 to 14585
Serial No.(UC);10001 to 10010

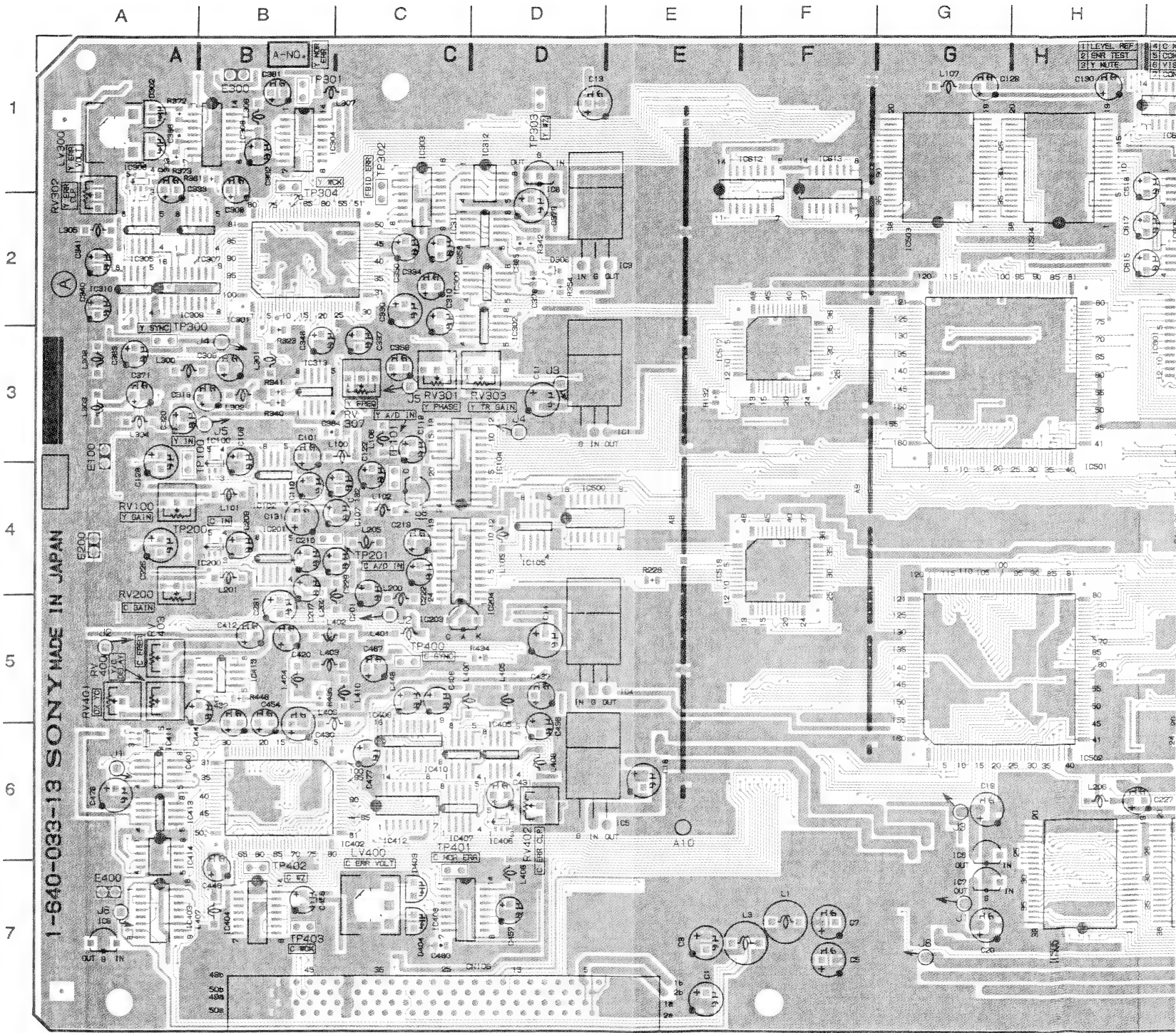
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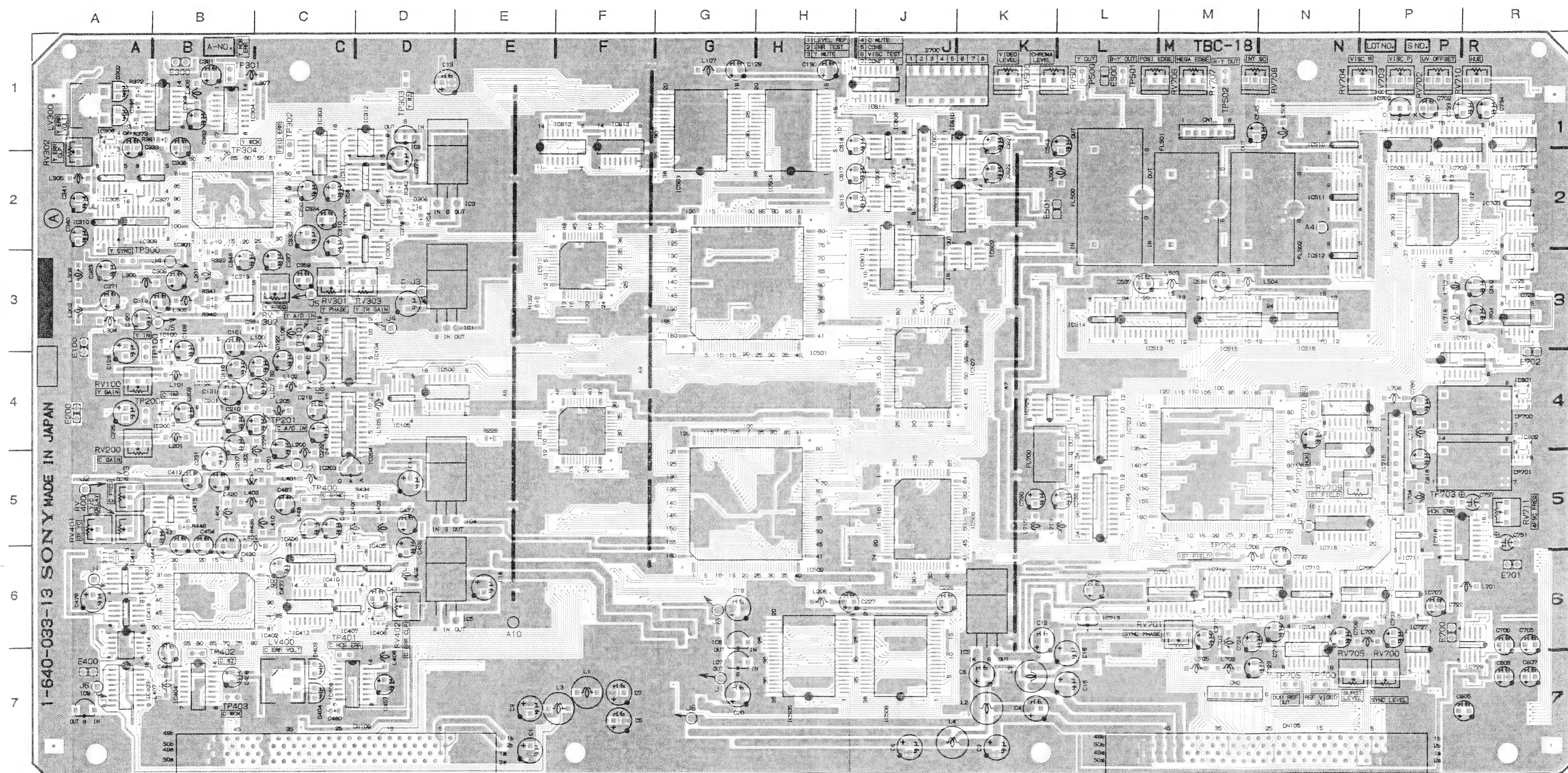
TBC-18P ; TIME BASE CORRECTOR, CTDM (EXPAND)

TBC-18P (1-640-033-13)

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CN 2	M-7	IC 104	D-4	IC 705	R-2	L 700	P-6	RV 500	K-1
CN 105	N-7	IC 105	D-4	IC 707	P-6	L 701	R-6	RV 501	L-1
CN 106	D-7	IC 200	B-4	IC 709	R-3	L 702	M-7	RV 700	P-7
		IC 201	B-4	IC 710	N-6	L 703	M-6	RV 701	M-6
CP 700	R-4	IC 203	C-5	IC 711	P-5	L 704	P-5	RV 702	P-1
CP 701	R-5	IC 204	D-5	IC 712	M-6	L 705	M-7	RV 703	P-1
		IC 300	D-2	IC 713	L-6	L 706	M-6	RV 704	P-1
*D 1	G-6	IC 301	B-2	IC 714	N-6	L 708	P-4	RV 705	N-7
*D 2	G-7	IC 302	D-2	IC 715	P-4	L 713	L-5	RV 706	M-1
*D 3	D-1	IC 303	C-1	IC 716	P-5	L 715	K-5	RV 707	M-1
*D 4	A-7	IC 304	B-1	IC 717	P-2	L 717	P-3	RV 708	M-1
*D 100	D-4	IC 305	A-2	IC 718	P-5	L 718	P-3	RV 709	P-5
*D 101	A-4	IC 306	A-1	IC 719	P-4	L 719	P-4	RV 710	R-1
*D 200	C-4	IC 307	A-2	IC 720	P-4			RV 711	R-5
*D 300	C-2	IC 308	B-1	IC 721	P-4	*Q 100	A-4		
*D 301	C-3	IC 309	A-2	IC 722	M-5	*Q 101	B-4	S 700	J-1
D 302	A-1	IC 310	A-2	IC 723	L-5	*Q 102	B-3		
D 303	A-1	IC 311	D-2	IC 724	L-5	*Q 103	C-4	TP 100	A-4
*D 305	A-2	IC 312	C-1	IC 725	L-4	*Q 104	A-4	TP 101	C-4
*D 306	A-1	IC 313	B-3	IC 726	R-2	*Q 200	A-4	TP 200	A-4
*D 307	D-1	IC 401	A-6	IC 727	P-6	*Q 201	B-5	TP 201	B-4
D 309	C-2	IC 402	B-6	IC 728	R-3	*Q 202	B-4	TP 300	A-3
*D 402	B-6	IC 403	A-7	IC 729	R-6	*Q 203	C-4	TP 301	B-1
D 403	C-7	IC 404	B-7	*IC 800	P-3	*Q 301	A-3	TP 302	C-2
D 404	C-7	IC 405	D-6	IC 801	R-4	*Q 302	B-3	TP 303	D-1
*D 406	D-6	IC 406	D-6	IC 802	R-5	*Q 304	B-3	TP 304	B-1
*D 407	D-7	IC 407	C-6			*Q 305	B-3	TP 305	D-3
*D 408	A-7	IC 408	C-7	LV 300	A-1	*Q 306	D-2	TP 400	C-5
*D 500	H-4	IC 409	C-6	LV 400	C-7	*Q 307	D-1	TP 401	C-7
*D 501	K-2	IC 410	C-6			*Q 308	B-1	TP 402	B-7
*D 502	F-3	IC 411	A-6	L 1	F-7	*Q 401	D-5	TP 403	B-7
*D 503	F-5	IC 412	C-6	L 2	K-7	*Q 402	B-5	TP 500	L-1
*D 504	K-3	IC 413	A-6	L 3	F-7	*Q 404	B-5	TP 501	L-1
*D 506	E-2	IC 414	A-6	L 4	K-7	*Q 405	B-6	TP 502	M-1
*D 600	K-2	IC 415	B-5	L 5	K-7	*Q 406	B-5	TP 700	N-7
*D 601	J-1	IC 500	D-4	L 100	C-3	*Q 407	A-6	TP 701	N-4
*D 602	K-2	IC 501	G-3	L 101	B-4	*Q 408	D-7	TP 702	N-5
*D 700	R-6	IC 502	G-5	L 102	C-4	*Q 428	A-6	TP 703	P-5
*D 701	P-6	IC 503	G-2	L 105	D-4	*Q 500	L-3	TP 704	M-6
*D 702	P-5	IC 504	H-2	L 106	C-3	*Q 501	L-2	TP 705	N-7
*D 706	R-3	IC 505	H-7	L 107	G-1	*Q 502	M-2		
		IC 506	J-7	L 200	C-5	*Q 503	N-2		
E100	A-3	IC 507	J-4	L 201	B-4	*Q 600	J-2		
E200	A-4	IC 508	J-5	L 202	C-5	*Q 601	J-2		
E300	B-1	IC 509	P-2	L 205	C-4	*Q 602	J-1		
E400	A-7	IC 510	N-2	L 206	H-6	*Q 700	P-7		
E500	L-1	IC 511	N-2	L 300	A-3	*Q 702	P-7		
E501	L-2	IC 512	N-3	L 301	B-3	*Q 703	R-6		
E700	P-6	IC 513	L-3	L 302	B-3	*Q 704	R-6		
E701	R-6	IC 514	L-3	L 303	A-3	*Q 705	R-6		
E702	R-4	IC 515	L-3	L 304	A-3	*Q 706	N-7		
		IC 516	N-3	L 305	A-2	*Q 707	R-6		
FL 500	L-2	IC 517	F-3	L 306	B-1	*Q 708	P-6		
FL 501	M-2	IC 518	F-4	L 307	B-1	*Q 709	R-2		
FL 502	N-2	IC 601	J-2	L 308	A-3	*Q 714	L-5		
FL 600	J-3	IC 602	K-3	L 400	D-5	*Q 715	L-5		
FL 700	L-5	IC 603	J-2	L 401	C-5	*Q 717	R-7		
		IC 605	J-1	L 402	B-5	*Q 718	R-7		
IC 1	D-3	IC 607	J-2	L 403	B-5	*Q 719	R-7		
IC 2	K-7	IC 608	J-1	L 404	B-5				
IC 3	D-2	IC 609	J-2	L 405	D-5	RV 100	A-4		
IC 4	D-5	IC 610	J-1	L 406	D-7	RV 200	A-4		
IC 5	D-6	IC 611	J-1	L 407	B-7	RV 301	C-3		
IC 6	G-6	IC 612	E-2	L 408	D-6	RV 302	A-2		
IC 7	G-7	IC 613	F-2	L 409	C-5	RV 303	D-3		
IC 8	D-1	IC 700	P-6	L 410	C-5	RV 307	C-3		
IC 9	A-7	IC 701	M-6	L 503	M-3	RV 400	A-5		
IC 100	B-4	IC 702	P-1	L 504	M-3	RV 401	A-5		
IC 102	B-4	IC 703	P-2	L 506	L-2	RV 402	D-6		

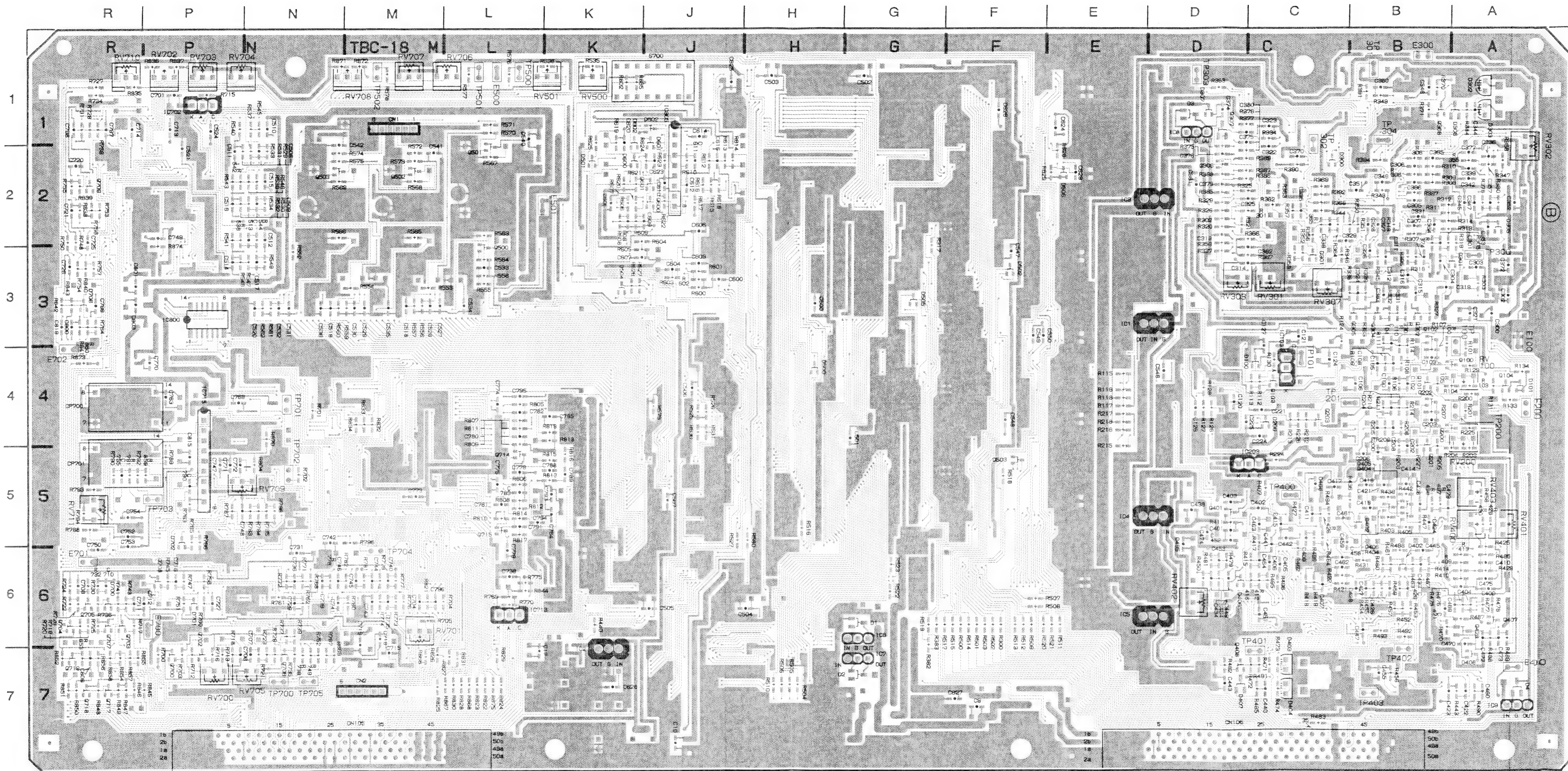
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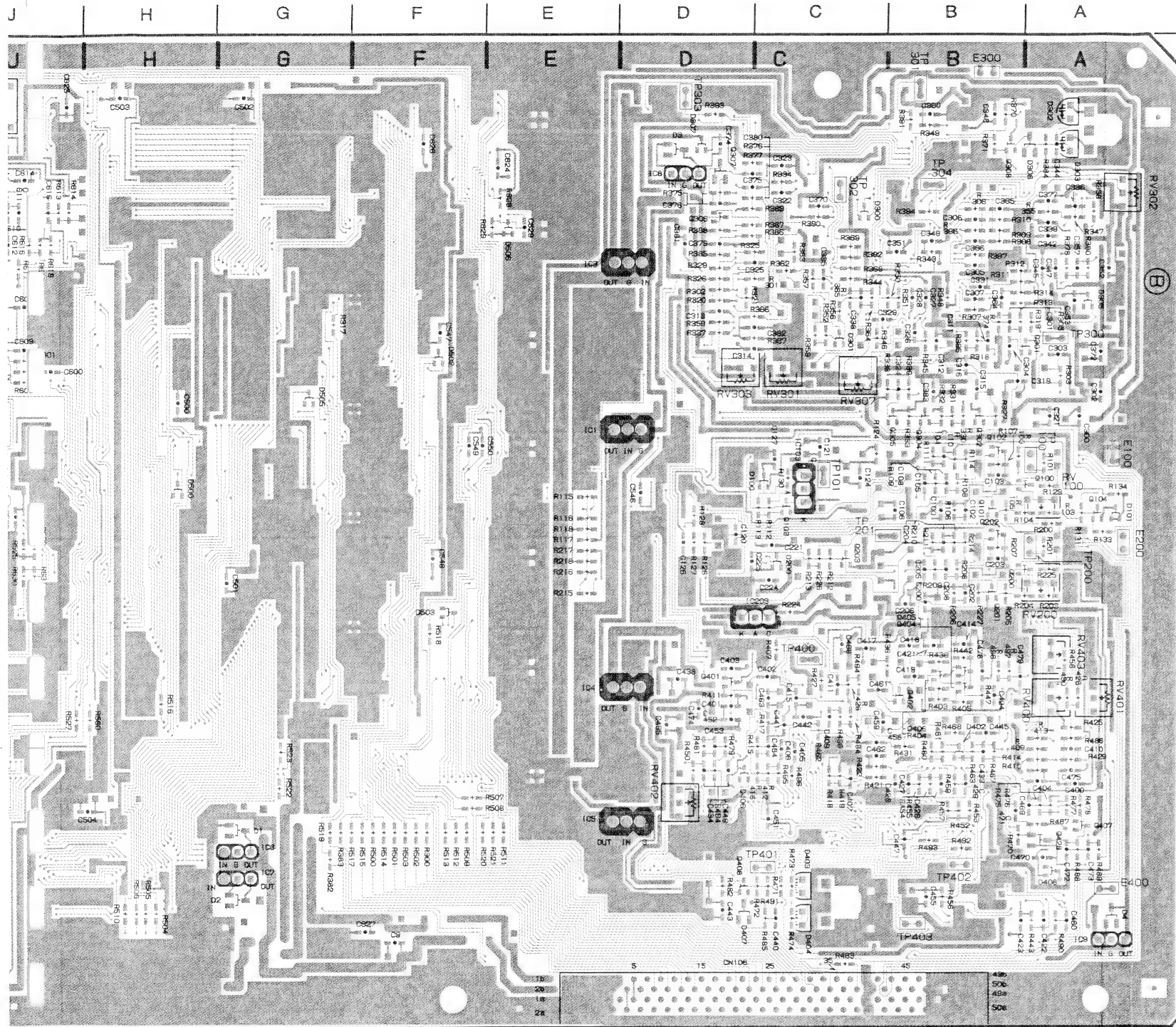
TBC-18P 1-640-033-13 A SIDE

TBC-18P ; TIME BASE CORRECTOR, CTDM (EXPAND)



TBC-18P 1-640-033-13 B SIDE

TBC-18P (1-640-033-13)



TBC-18P 1-640-033-13 B SIDE

CN 1	M-1	IC 103	C-4	IC 704	N-6	L 508	N-1	RV 403	A-5
CN 2	M-7	IC 104	D-4	IC 705	R-2	L 700	P-6	RV 500	K-1
CN 105	N-7	IC 105	D-4	IC 707	P-6	L 701	R-6	RV 501	L-1
CN 106	D-7	IC 200	B-4	IC 709	R-3	L 702	M-7	RV 700	P-7
		IC 201	B-4	IC 710	N-6	L 703	M-6	RV 701	M-6
CP 700	R-4	IC 203	C-5	IC 711	P-5	L 704	P-5	RV 702	P-1
CP 701	R-5	IC 204	D-5	IC 712	M-6	L 705	M-7	RV 703	P-1
		IC 300	D-2	IC 713	L-6	L 706	M-6	RV 704	P-1
*D 1	G-6	IC 301	B-2	IC 714	N-6	L 708	P-4	RV 705	N-7
*D 2	G-7	IC 302	D-2	IC 715	P-4	L 713	L-5	RV 706	M-1
*D 3	D-1	IC 303	C-1	IC 716	P-5	L 715	K-5	RV 707	M-1
*D 4	A-7	IC 304	B-1	IC 717	P-2	L 717	P-3	RV 708	M-1
*D 100	D-4	IC 305	A-2	IC 718	P-5	L 718	P-3	RV 709	P-5
*D 101	A-4	IC 306	A-1	IC 719	P-4	L 719	P-4	RV 710	R-1
*D 200	C-4	IC 307	A-2	IC 720	P-4			RV 711	R-5
*D 300	C-2	IC 308	B-1	IC 721	P-4	*Q 100	A-4		
*D 301	C-3	IC 309	A-2	IC 722	M-5	*Q 101	B-4	S 700	J-1
D 302	A-1	IC 310	A-2	IC 723	L-5	*Q 102	B-3		
D 303	A-1	IC 311	D-2	IC 724	L-5	*Q 103	C-4	TP 100	A-4
*D 305	A-2	IC 312	C-1	IC 725	L-4	*Q 104	A-4	TP 101	C-4
*D 306	A-1	IC 313	B-3	IC 726	R-2	*Q 200	A-4	TP 200	A-4
*D 307	D-1	IC 401	A-6	IC 727	P-6	*Q 201	B-5	TP 201	B-4
D 309	C-2	IC 402	B-6	IC 728	R-3	*Q 202	B-4	TP 300	A-3
*D 402	B-6	IC 403	A-7	IC 729	R-6	*Q 203	C-4	TP 301	B-1
D 403	C-7	IC 404	B-7	*IC 800	P-3	*Q 301	A-3	TP 302	C-2
D 404	C-7	IC 405	D-6	IC 801	R-4	*Q 302	B-3	TP 303	D-1
*D 406	D-6	IC 406	D-6	IC 802	R-5	*Q 304	B-3	TP 304	B-1
*D 407	D-7	IC 407	C-6			*Q 305	B-3	TP 305	D-3
*D 408	A-7	IC 408	C-7	LV 300	A-1	*Q 306	D-2	TP 400	C-5
*D 500	H-4	IC 409	C-6	LV 400	C-7	*Q 307	D-1	TP 401	C-7
*D 501	K-2	IC 410	C-6			*Q 308	B-1	TP 402	B-7
*D 502	F-3	IC 411	A-6	L 1	F-7	*Q 401	D-5	TP 403	B-7
*D 503	F-5	IC 412	C-6	L 2	K-7	*Q 402	B-5	TP 500	L-1
*D 504	K-3	IC 413	A-6	L 3	F-7	*Q 404	B-5	TP 501	L-1
*D 506	E-2	IC 414	A-6	L 4	K-7	*Q 405	B-6	TP 502	M-1
*D 600	K-2	IC 415	B-5	L 5	K-7	*Q 406	B-5	TP 700	N-7
*D 601	J-1	IC 500	D-4	L 100	C-3	*Q 407	A-6	TP 701	N-4
*D 602	K-2	IC 501	G-3	L 101	B-4	*Q 408	D-7	TP 702	N-5
*D 700	R-6	IC 502	G-5	L 102	C-4	*Q 428	A-6	TP 703	P-5
*D 701	P-6	IC 503	G-2	L 105	D-4	*Q 500	L-3	TP 704	M-6
*D 702	P-5	IC 504	H-2	L 106	C-3	*Q 501	L-2	TP 705	N-7
*D 706	R-3	IC 505	H-7	L 107	G-1	*Q 502	M-2		
		IC 506	J-7	L 200	C-5	*Q 503	N-2		
E100	A-3	IC 507	J-4	L 201	B-4	*Q 600	J-2		
E200	A-4	IC 508	J-5	L 202	C-5	*Q 601	J-2		
E300	B-1	IC 509	P-2	L 205	C-4	*Q 602	J-1		
E400	A-7	IC 510	N-2	L 206	H-6	*Q 700	P-7		
E500	L-1	IC 511	N-2	L 300	A-3	*Q 702	P-7		
E501	L-2	IC 512	N-3	L 301	B-3	*Q 703	R-6		
E700	P-6	IC 513	L-3	L 302	B-3	*Q 704	R-6		
E701	R-6	IC 514	L-3	L 303	A-3	*Q 705	R-6		
E702	R-4	IC 515	L-3	L 304	A-3	*Q 706	N-7		
		IC 516	N-3	L 305	A-2	*Q 707	R-6		
FL 500	L-2	IC 517	F-3	L 306	B-1	*Q 708	P-6		
FL 501	M-2	IC 518	F-4	L 307	B-1	*Q 709	R-2		
FL 502	N-2	IC 601	J-2	L 308	A-3	*Q 714	L-5		
FL 600	J-3	IC 602	K-3	L 400	D-5	*Q 715	L-5		
FL 700	L-5	IC 603	J-2	L 401	C-5	*Q 717	R-7		
		IC 605	J-1	L 402	B-5	*Q 718	R-7		
IC 1	D-3	IC 607	J-2	L 403	B-5	*Q 719	R-7		
IC 2	K-7	IC 608	J-1	L 404	B-5				
IC 3	D-2	IC 609	J-2	L 405	D-5	RV 100	A-4		
IC 4	D-5	IC 610	J-1	L 406	D-7	RV 200	A-4		
IC 5	D-6	IC 611	J-1	L 407	B-7	RV 301	C-3		
IC 6	G-6	IC 612	E-2	L 408	D-6	RV 302	A-2		
IC 7	G-7	IC 613	F-2	L 409	C-5	RV 303	D-3		
IC 8	D-1	IC 700	P-6	L 410	C-5	RV 307	C-3		
IC 9	A-7	IC 701	M-6	L 503	M-3	RV 400	A-5		
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IC 102	B-4	IC 703	P-2	L 506	L-2	RV 402	D-6		

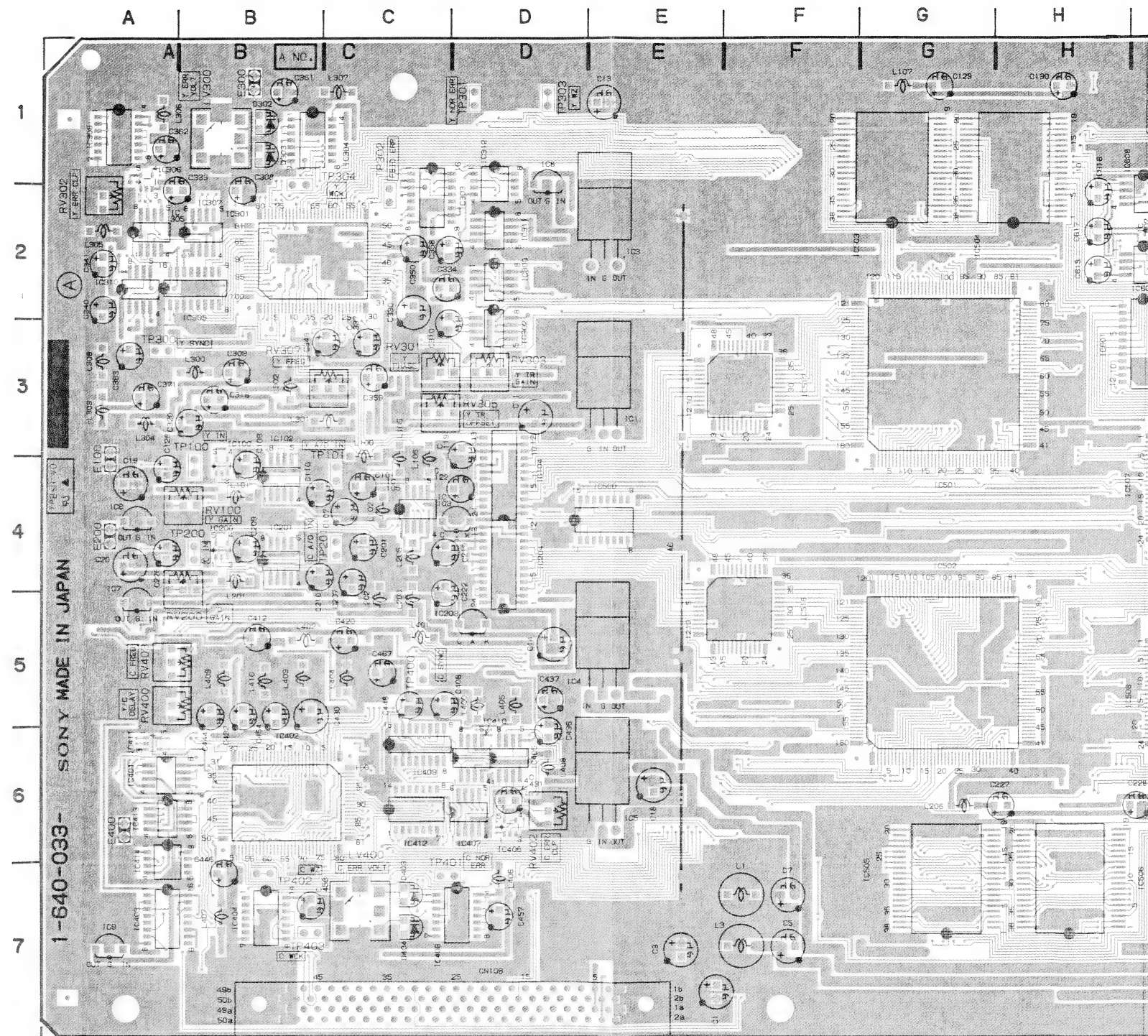
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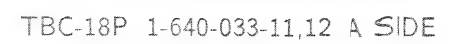
TBC-18P ; TIME BASE CORRECTOR, CTDM (EXPAND)

TBC-18P (1-640-033-11,12)

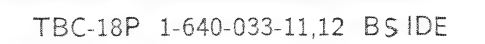
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CN 2	M-7	IC 201	B-4	IC 716	P-5				
CN 105	N-7	IC 203	D-5	IC 718	N-5	*Q 100	B-4	TP 100	B-4
CN 106	D-7	IC 204	D-5	IC 719	N-4	*Q 101	B-4	TP 101	C-4
		IC 300	D-2	IC 720	N-4	*Q 102	B-3	TP 200	B-4
CP 700	R-4	IC 301	B-2	IC 721	P-4	*Q 103	B-4	TP 201	C-4
CP 701	R-5	IC 302	D-2	IC 722	M-5	*Q 200	B-4	TP 300	A-3
		IC 303	C-1	IC 723	L-5	*Q 201	B-5	TP 301	D-1
*D 1	A-4	IC 304	B-1	IC 724	L-5	*Q 202	B-4	TP 302	C-2
*D 2	A-4	IC 305	A-2	IC 725	K-4	*Q 203	B-4	TP 303	D-1
*D 3	D-1	IC 306	A-1	IC 726	R-2	*Q 301	B-3	TP 304	B-1
*D 4	A-7	IC 307	B-2	IC 727	P-6	*Q 302	B-3	TP 400	C-5
*D 100	D-4	IC 308	A-1	IC 728	R-3	*Q 304	B-3	TP 401	C-7
*D 200	D-5	IC 309	A-2	IC 729	R-6	*Q 305	B-3	TP 402	B-7
*D 300	C-2	IC 310	A-2			*Q 306	D-2	TP 403	B-7
*D 301	C-3	IC 311	D-2	LV 300	B-1	*Q 307	D-1	TP 500	L-1
D 302	B-1	IC 312	D-1	LV 400	C-7	*Q 401	D-5	TP 501	L-1
D 303	B-1	IC 401	A-6			*Q 402	B-5	TP 502	M-1
*D 305	A-2	IC 402	B-6	L 1	F-7	*Q 404	C-6	TP 700	N-7
*D 306	A-1	IC 403	A-7	L 2	K-7	*Q 405	C-6	TP 701	N-4
*D 307	D-1	IC 404	B-7	L 3	F-7	*Q 406	C-5	TP 702	N-5
*D 402	B-6	IC 405	D-6	L 4	K-7	*Q 407	A-6	TP 703	R-5
D 403	C-7	IC 406	D-6	L 5	K-7	*Q 408	B-6	TP 704	M-6
D 404	C-7	IC 407	D-6	L 100	C-3	*Q 500	L-3	TP 705	N-7
*D 406	D-6	IC 408	C-7	L 101	B-4	*Q 501	L-2		
*D 407	C-7	IC 409	C-6	L 102	C-4	*Q 502	M-2		
*D 408	A-7	IC 410	D-6	L 105	C-4	*Q 503	M-2		
*D 500	G-4	IC 411	A-6	L 106	C-4	*Q 600	J-2		
*D 501	K-2	IC 412	C-6	L 107	G-1	*Q 601	J-2		
*D 502	F-3	IC 413	A-6	L 200	C-5	*Q 602	J-1		
*D 503	E-5	IC 414	A-6	L 201	B-4	*Q 700	P-7		
*D 504	K-3	IC 500	D-4	L 202	C-5	*Q 702	P-7		
*D 600	J-2	IC 501	G-3	L 205	C-4	*Q 703	R-6		
*D 601	J-2	IC 502	G-5	L 206	G-6	*Q 704	R-6		
*D 602	J-2	IC 503	G-2	L 300	B-3	*Q 705	R-6		
*D 700	R-6	IC 504	H-2	L 301	C-3	*Q 706	N-7		
*D 701	P-6	IC 505	H-7	L 302	B-3	*Q 707	R-6		
*D 702	P-6	IC 506	H-7	L 303	A-3	*Q 708	P-6		
*D 706	R-3	IC 507	J-4	L 304	A-3	*Q 709	R-2		
		IC 508	J-5	L 305	A-2	*Q 714	K-5		
E100	A-4	IC 509	P-2	L 306	A-1	*Q 715	L-5		
E200	A-4	IC 510	N-2	L 307	C-1	*Q 717	R-7		
E300	B-1	IC 511	N-2	L 308	A-3	*Q 718	R-7		
E400	A-6	IC 512	N-3	L 400	D-5	*Q 719	R-7		
E500	L-1	IC 513	L-3	L 401	C-5				
E501	K-2	IC 514	K-3	L 402	B-5	RV 100	B-4		
E700	P-6	IC 515	L-3	L 403	B-5	RV 200	B-4		
E701	R-6	IC 516	M-3	L 404	C-5	RV 301	C-3		
E702	R-4	IC 517	F-3	L 405	D-5	RV 302	A-2		
		IC 518	F-5	L 406	D-7	RV 303	D-3		
FL 500	L-2	IC 601	H-2	L 407	B-7	RV 305	C-3		
FL 501	M-2	IC 602	J-3	L 408	D-6	RV 307	C-3		
FL 502	M-2	IC 603	J-2	L 409	B-5	RV 400	A-5		
FL 600	J-3	IC 605	J-1	L 410	B-5	RV 402	D-6		
FL 700	K-5	IC 607	J-2	L 503	L-3	RV 403	A-5		
		IC 608	H-1	L 504	M-3	RV 500	K-1		
IC 1	E-3	IC 609	H-2	L 506	K-2	RV 501	L-1		
IC 2	K-7	IC 610	J-1	L 508	N-1	RV 700	P-7		
IC 3	E-2	IC 700	P-6	L 700	P-6	RV 701	M-6		
IC 4	E-5	IC 701	M-6	L 701	R-6	RV 702	P-1		
IC 5	E-6	IC 702	P-1	L 702	M-7	RV 703	P-1		
IC 6	A-4	IC 704	N-6	L 703	M-6	RV 704	P-1		
IC 7	A-5	IC 705	R-2	L 704	P-5	RV 705	P-7		
IC 8	D-1	IC 707	P-6	L 705	M-7	RV 706	M-1		
IC 9	A-7	IC 709	R-3	L 706	M-6	RV 707	M-1		
IC 100	B-4	IC 710	N-6	L 708	P-4	RV 708	N-1		
IC 102	B-4	IC 711	P-5	L 713	K-5	RV 709	N-5		
IC 103	D-4	IC 712	M-6	L 715	K-5	RV 710	R-1		
IC 104	D-4	IC 713	L-6	L 717	P-3	RV 711	P-6		
IC 105	C-4	IC 714	N-6	L 718	P-3				

* : B SIDE

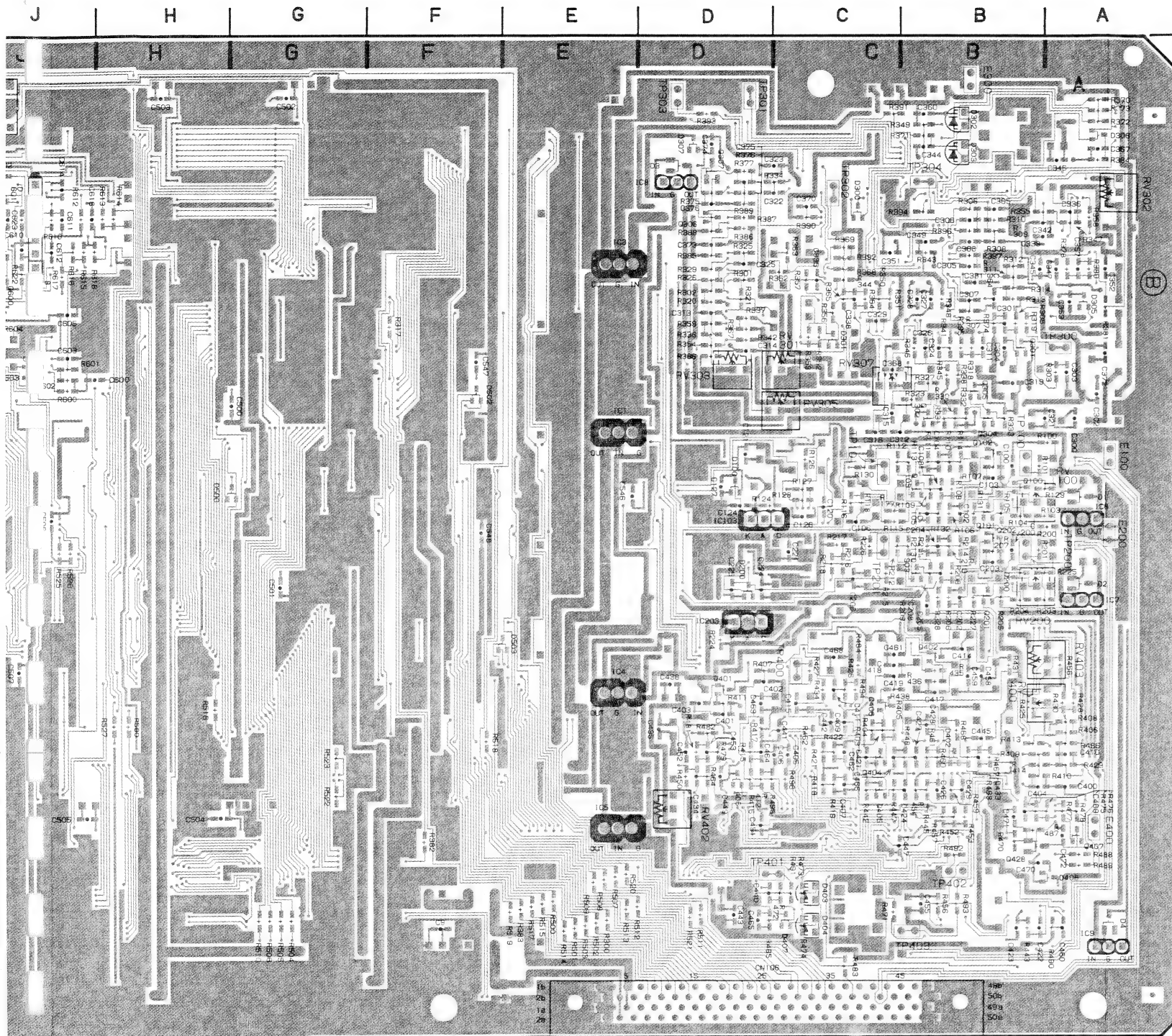




TBC-18P ; TIME BASE CORRECTOR, CTDM (EXPAND)



TBC-18P (1-640-033-11,12)



TBC-18P 1-640-033-11,12 B SIDE

CN 1	M-1	IC 200	B-4	IC 715	P-4	L 719	P-4	S 700	J-1
CN 2	M-7	IC 201	B-4	IC 716	P-5				
CN 105	N-7	IC 203	D-5	IC 718	N-5	*Q 100	B-4	TP 100	B-4
CN 106	D-7	IC 204	D-5	IC 719	N-4	*Q 101	B-4	TP 101	C-4
		IC 300	D-2	IC 720	N-4	*Q 102	B-3	TP 200	B-4
CP 700	R-4	IC 301	B-2	IC 721	P-4	*Q 103	B-4	TP 201	C-4
CP 701	R-5	IC 302	D-2	IC 722	M-5	*Q 200	B-4	TP 300	A-3
		IC 303	C-1	IC 723	L-5	*Q 201	B-5	TP 301	D-1
*D 1	A-4	IC 304	B-1	IC 724	L-5	*Q 202	B-4	TP 302	C-2
*D 2	A-4	IC 305	A-2	IC 725	K-4	*Q 203	B-4	TP 303	D-1
*D 3	D-1	IC 306	A-1	IC 726	R-2	*Q 301	B-3	TP 304	B-1
*D 4	A-7	IC 307	B-2	IC 727	P-6	*Q 302	B-3	TP 400	C-5
*D 100	D-4	IC 308	A-1	IC 728	R-3	*Q 304	B-3	TP 401	C-7
*D 200	D-5	IC 309	A-2	IC 729	R-6	*Q 305	B-3	TP 402	B-7
*D 300	C-2	IC 310	A-2			*Q 306	D-2	TP 403	B-7
*D 301	C-3	IC 311	D-2	LV 300	B-1	*Q 307	D-1	TP 500	L-1
D 302	B-1	IC 312	D-1	LV 400	C-7	*Q 401	D-5	TP 501	L-1
D 303	B-1	IC 401	A-6			*Q 402	B-5	TP 502	M-1
*D 305	A-2	IC 402	B-6	L 1	F-7	*Q 404	C-6	TP 700	N-7
*D 306	A-1	IC 403	A-7	L 2	K-7	*Q 405	C-6	TP 701	N-4
*D 307	D-1	IC 404	B-7	L 3	F-7	*Q 406	C-5	TP 702	N-5
*D 402	B-6	IC 405	D-6	L 4	K-7	*Q 407	A-6	TP 703	R-5
D 403	C-7	IC 406	D-6	L 5	K-7	*Q 408	B-6	TP 704	M-6
D 404	C-7	IC 407	D-6	L 100	C-3	*Q 500	L-3	TP 705	N-7
*D 406	D-6	IC 408	C-7	L 101	B-4	*Q 501	L-2		
*D 407	C-7	IC 409	C-6	L 102	C-4	*Q 502	M-2		
*D 408	A-7	IC 410	C-6	L 105	C-4	*Q 503	M-2		
*D 500	G-4	IC 411	A-6	L 106	C-4	*Q 600	J-2		
*D 501	K-2	IC 412	C-6	L 107	G-1	*Q 601	J-2		
*D 502	F-3	IC 413	A-6	L 200	C-5	*Q 602	J-1		
*D 503	E-5	IC 414	A-6	L 201	B-4	*Q 700	P-7		
*D 504	K-3	IC 500	D-4	L 202	C-5	*Q 702	P-7		
*D 600	J-2	IC 501	G-3	L 205	C-4	*Q 703	R-6		
*D 601	J-2	IC 502	G-5	L 206	G-6	*Q 704	R-6		
*D 602	J-2	IC 503	G-2	L 300	B-3	*Q 705	R-6		
*D 700	R-6	IC 504	H-2	L 301	C-3	*Q 706	N-7		
*D 701	P-6	IC 505	H-7	L 302	B-3	*Q 707	R-6		
*D 702	P-6	IC 506	H-7	L 303	A-3	*Q 708	P-6		
*D 706	R-3	IC 507	J-4	L 304	A-3	*Q 709	R-2		
		IC 508	J-5	L 305	A-2	*Q 714	K-5		
E100	A-4	IC 509	P-2	L 306	A-1	*Q 715	L-5		
E200	A-4	IC 510	N-2	L 307	C-1	*Q 717	R-7		
E300	B-1	IC 511	N-2	L 308	A-3	*Q 718	R-7		
E400	A-6	IC 512	N-3	L 400	D-5	*Q 719	R-7		
E500	L-1	IC 513	L-3	L 401	C-5				
E501	K-2	IC 514	K-3	L 402	B-5	RV 100	B-4		
E700	P-6	IC 515	L-3	L 403	B-5	RV 200	B-4		
E701	R-6	IC 516	M-3	L 404	C-5	RV 301	C-3		
E702	R-4	IC 517	F-3	L 405	D-5	RV 302	A-2		
		IC 518	F-5	L 406	D-7	RV 303	D-3		
FL 500	L-2	IC 601	H-2	L 407	B-7	RV 305	C-3		
FL 501	M-2	IC 602	J-3	L 408	D-6	RV 307	C-3		
FL 502	M-2	IC 603	J-2	L 409	B-5	RV 400	A-5		
FL 600	J-3	IC 605	J-1	L 410	B-5	RV 402	D-6		
FL 700	K-5	IC 607	J-2	L 503	L-3	RV 403	A-5		
		IC 608	H-1	L 504	M-3	RV 500	K-1		
IC 1	E-3	IC 609	H-2	L 506	K-2	RV 501	L-1		
IC 2	K-7	IC 610	J-1	L 508	N-1	RV 700	P-7		
IC 3	E-2	IC 700	P-6	L 700	P-6	RV 701	M-6		
IC 4	E-5	IC 701	M-6	L 701	R-6	RV 702	P-1		
IC 5	E-6	IC 702	P-1	L 702	M-7	RV 703	P-1		
IC 6	A-4	IC 704	N-6	L 703	M-6	RV 704	P-1		
IC 7	A-5	IC 705	R-2	L 704	P-5	RV 705	P-7		
IC 8	D-1	IC 707	P-6	L 705	M-7	RV 706	M-1		
IC 9	A-7	IC 709	R-3	L 706	M-6	RV 707	M-1		
IC 100	B-4	IC 710	N-6	L 708	P-4	RV 708	N-1		
IC 102	B-4	IC 711	P-5	L 713	K-5	RV 709	N-5		
IC 103	D-4	IC 712	M-6	L 715	K-5	RV 710	R-1		
IC 104	D-4	IC 713	L-6	L 717	P-3	RV 711	P-6		
IC 105	C-4	IC 714	N-6	L 718	P-3				

* : B SIDE

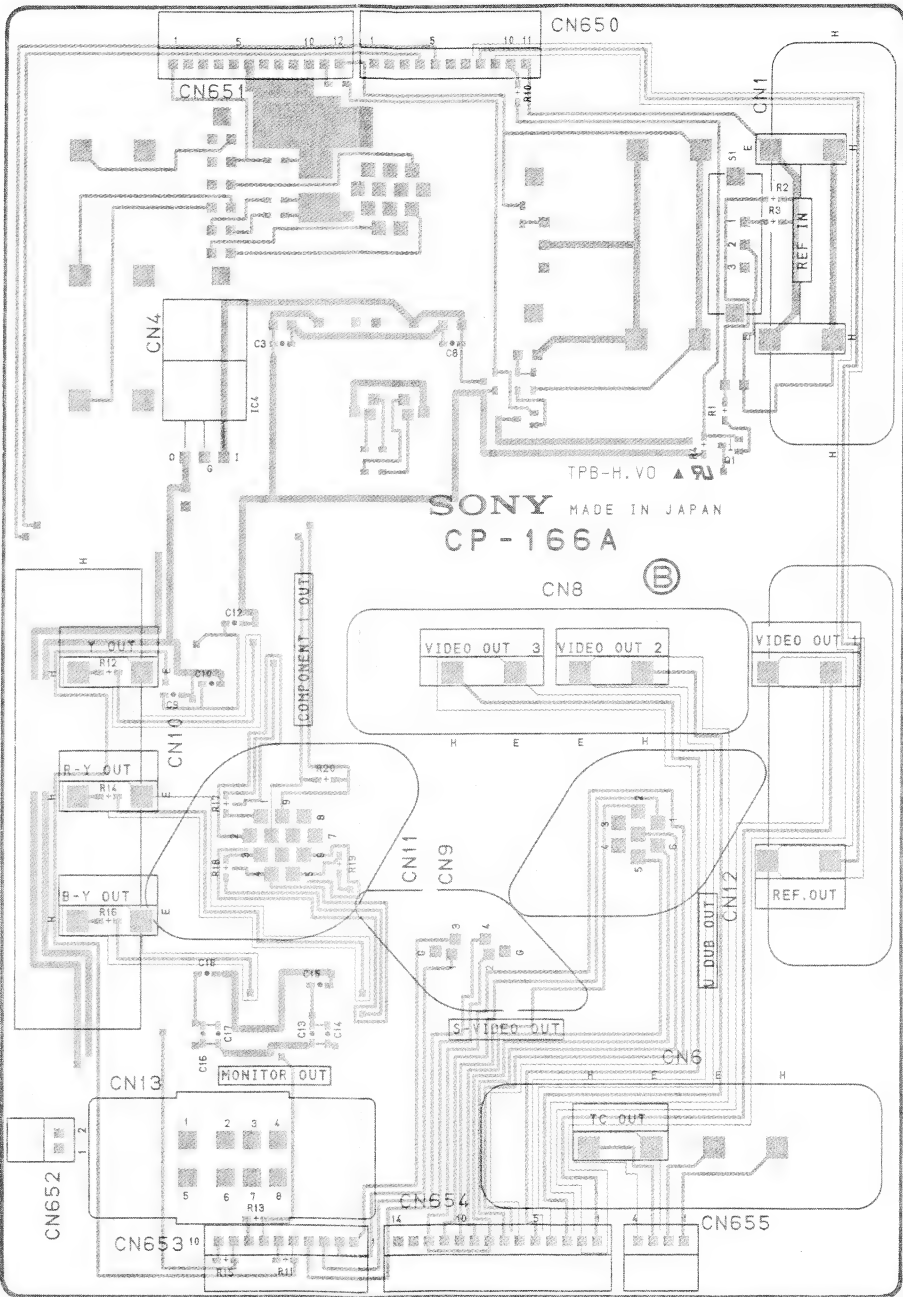
Serial No. (EK); 10001 to 14585
 Serial No. (UC); 10001 to 10010

CP-166A CP-166A

CP-166A ; VIDEO INPUT/OUTPUT CONNECTOR, COMPONENT OUT DRIVER

CP-166A (1-640-045-21)

- CN 1 A-1
- CN 2 B-2
- CN 3 C-2
- CN 4 D-1
- CN 5 D-1
- CN 6 A-6
- CN 7 A-4
- CN 8 B-3
- CN 9 B-5
- CN 10 D-4
- CN 11 D-4
- CN 12 B-4
- CN 13 C-6
- CN 650 B-1
- CN 651 C-1
- CN 652 D-6
- CN 653 C-6
- CN 654 B-6
- CN 655 A-6
- IC 1 D-3
- IC 2 C-5
- IC 3 D-5
- IC 4 C-2
- L 1 C-2
- L 2 C-2
- *Q 1 A-3
- *Q 2 B-2
- S 1 B-1
- S 2 B-2
- S 3 D-2
- * : B SIDE



CP-166A 1-640-045-21 B SIDE

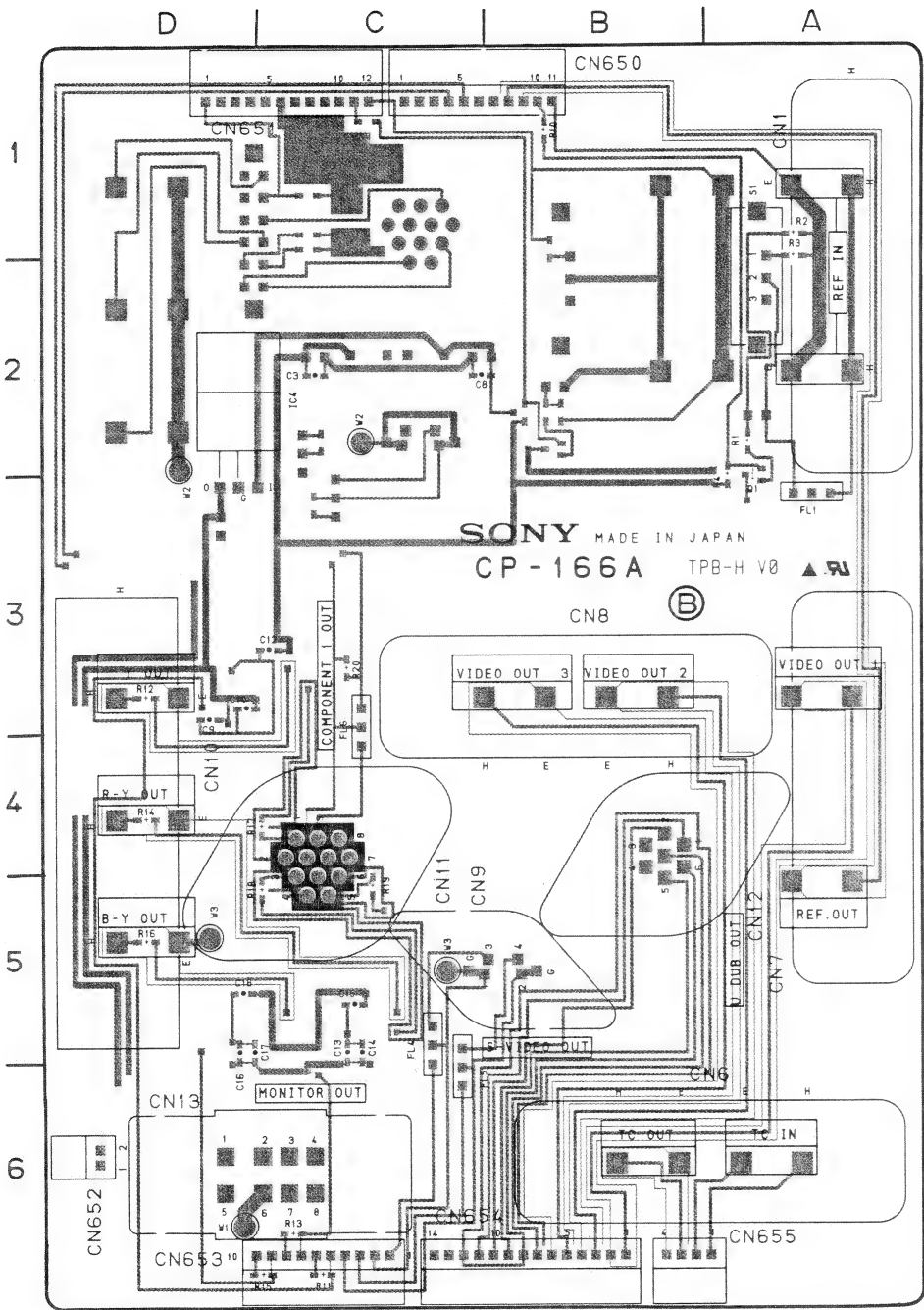
Serial No.(EK);15256 and higher
Serial No.(UC);10011 and higher

CP-166A CP-166A

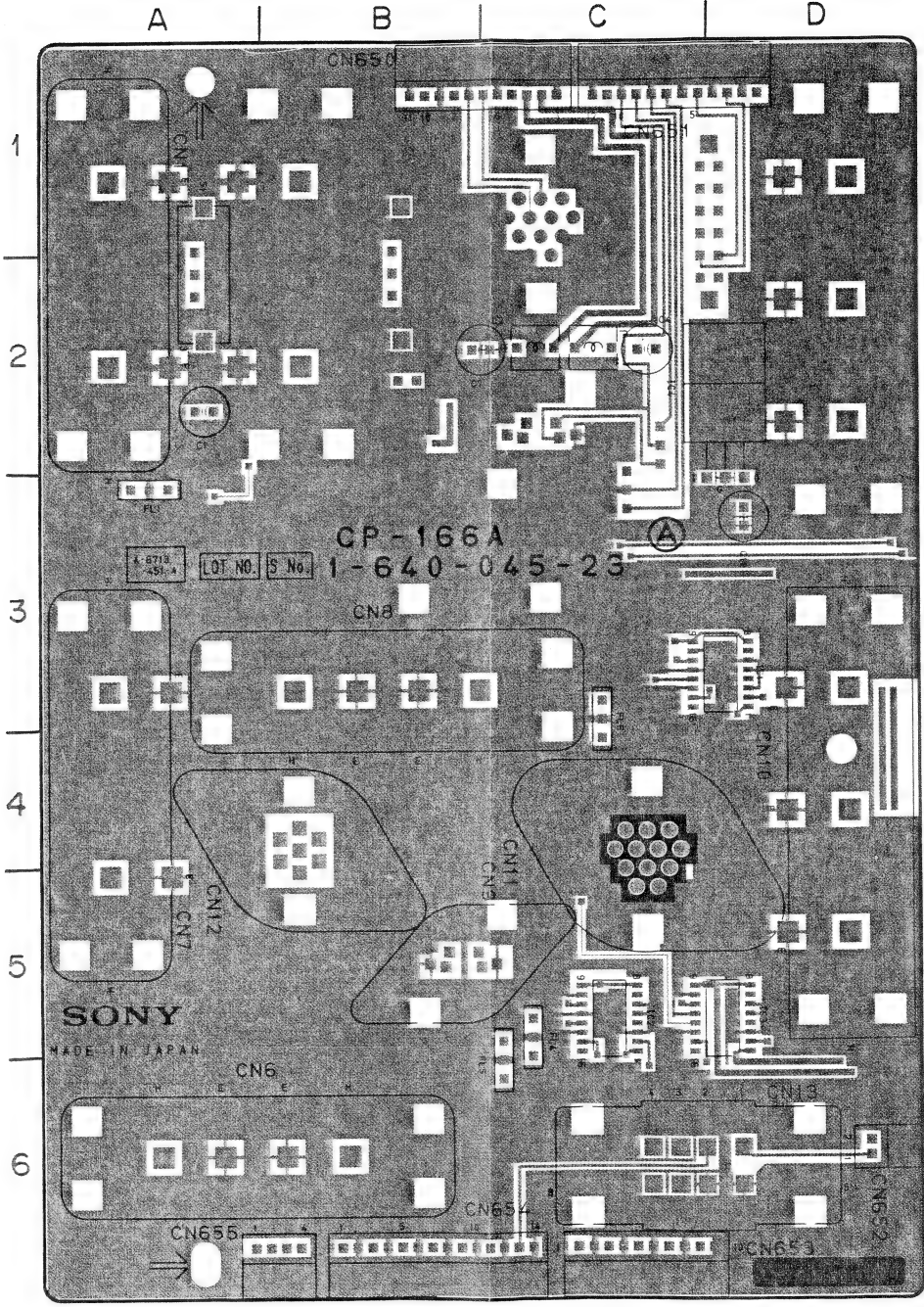
CP-166A ; VIDEO INPUT/OUTPUT CONNECTOR, COMPONENT OUT DRIVER

CP-166A (1-640-045-23)

- | | |
|------------|-----|
| CN 1 | A-1 |
| CN 6 | A-6 |
| CN 7 | A-4 |
| CN 8 | B-3 |
| CN 9 | B-5 |
| CN 10 | D-4 |
| CN 11 | D-4 |
| CN 12 | B-4 |
| CN 13 | C-6 |
| CN 650 | B-1 |
| CN 652 | D-6 |
| CN 653 | C-6 |
| CN 654 | B-6 |
| CN 655 | A-6 |
| IC 1 | D-3 |
| IC 2 | C-5 |
| IC 3 | D-5 |
| IC 4 | D-2 |
| L 1 | C-2 |
| L 2 | C-2 |
| *Q 1 | A-3 |
| S 1 | B-1 |
| * : B SIDE | |



CP-166A 1-640-045-23 B SIDE

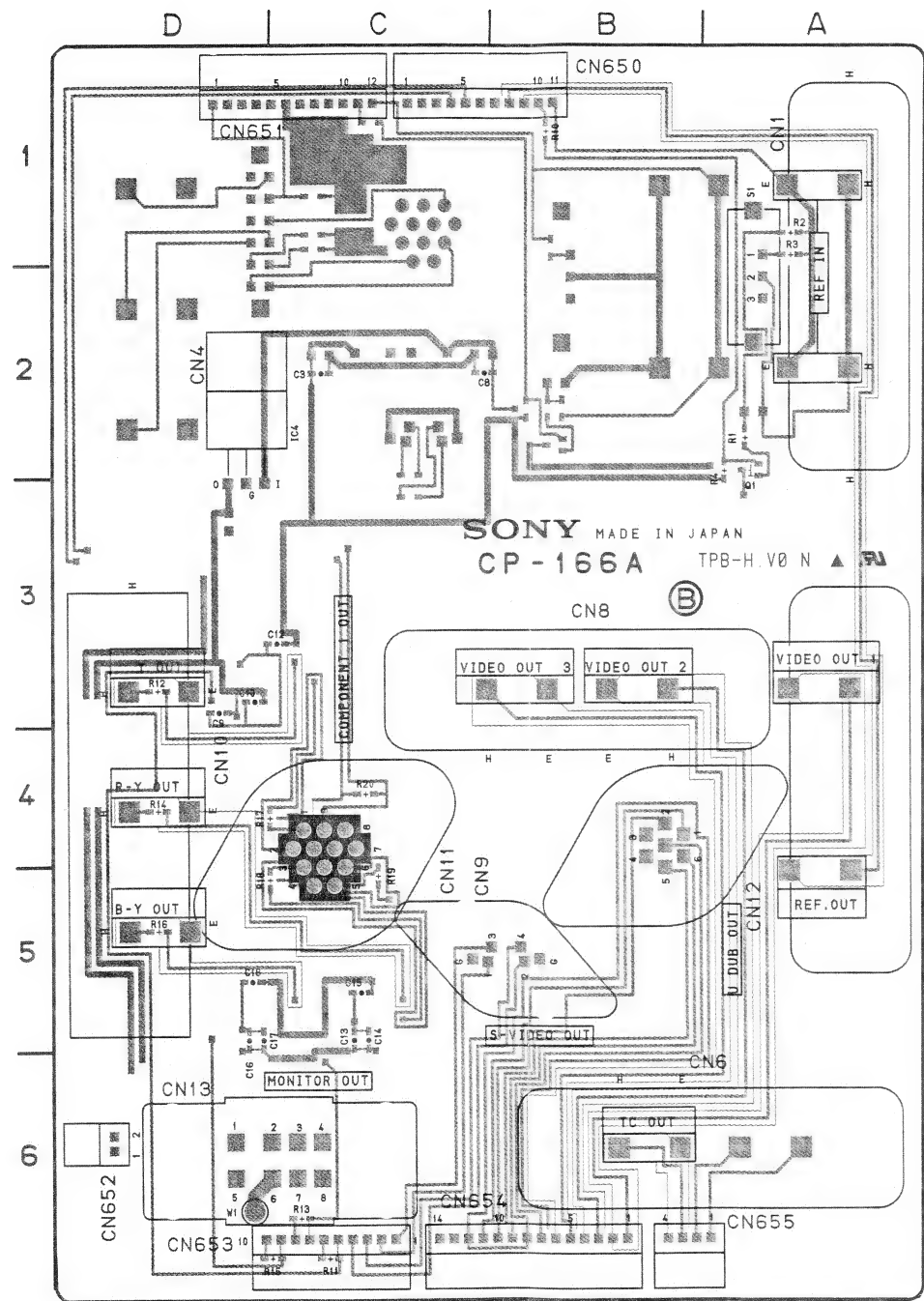


CP-166A 1-640-045-23 A SIDE

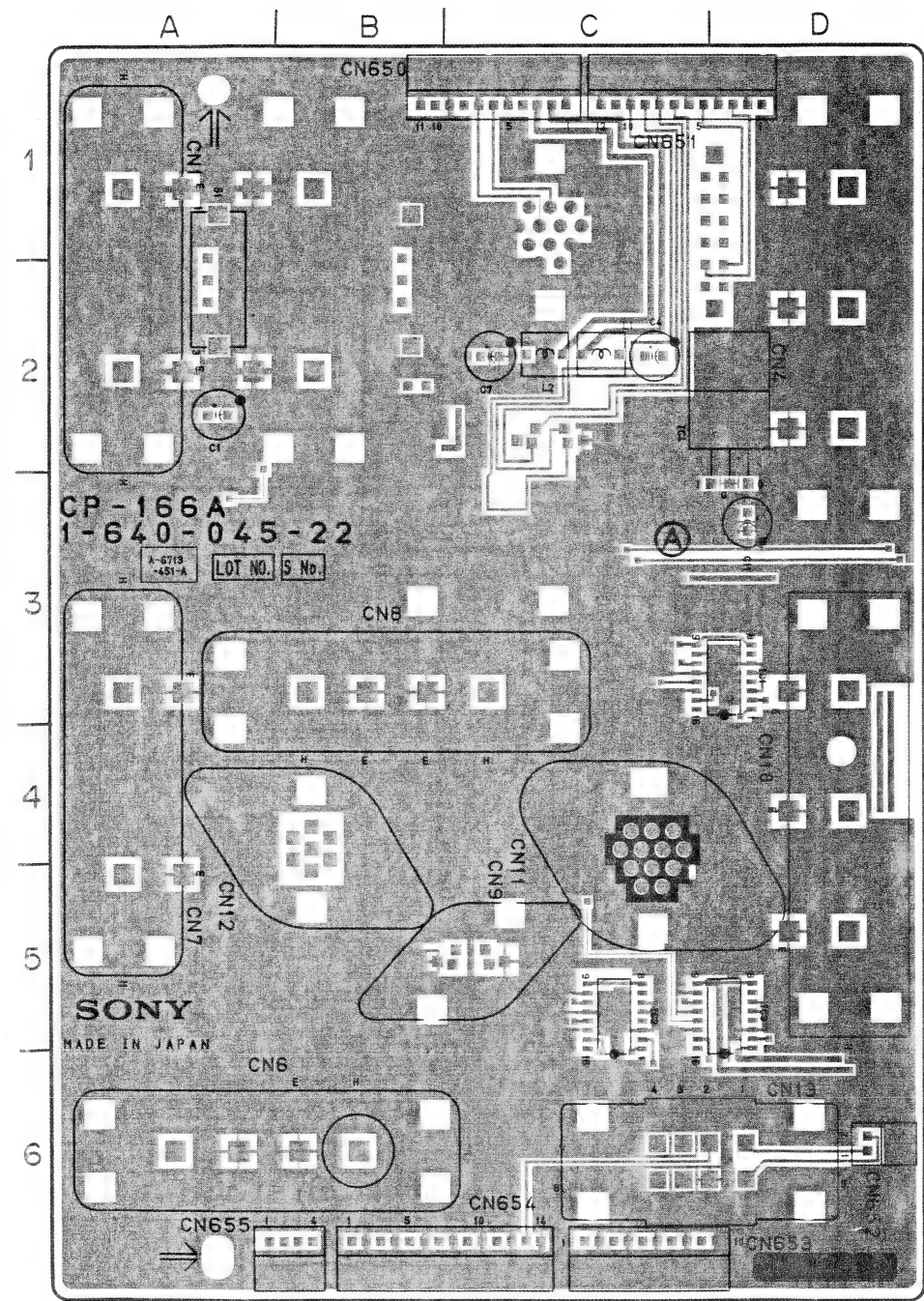
Serial No.(EK);14586 to 15255
Serial No.(UC);10011 and higher

CP-166A CP-166A

CP-166A ; VIDEO INPUT/OUTPUT CONNECTOR, COMPONENT OUT DRIVER



CP-166A 1-640-045-22 B SIDE



CP-166A 1-640-045-22 A SIDE

CP-166A (1-640-045-22)

- CN 1 A-1
- CN 4 D-2
- CN 6 A-6
- CN 7 A-5
- CN 8 B-3
- CN 9 C-5
- CN 10 D-4
- CN 11 C-4
- CN 12 A-5
- CN 13 D-6
- CN 650 B-1
- CN 651 C-1
- CN 652 D-6
- CN 653 D-6
- CN 654 B-6
- CN 655 A-6

- IC 1 D-3
- IC 2 C-5
- IC 3 D-5
- IC 4 C-2

- L 1 C-2
- L 2 C-2

- *Q 1 A-3

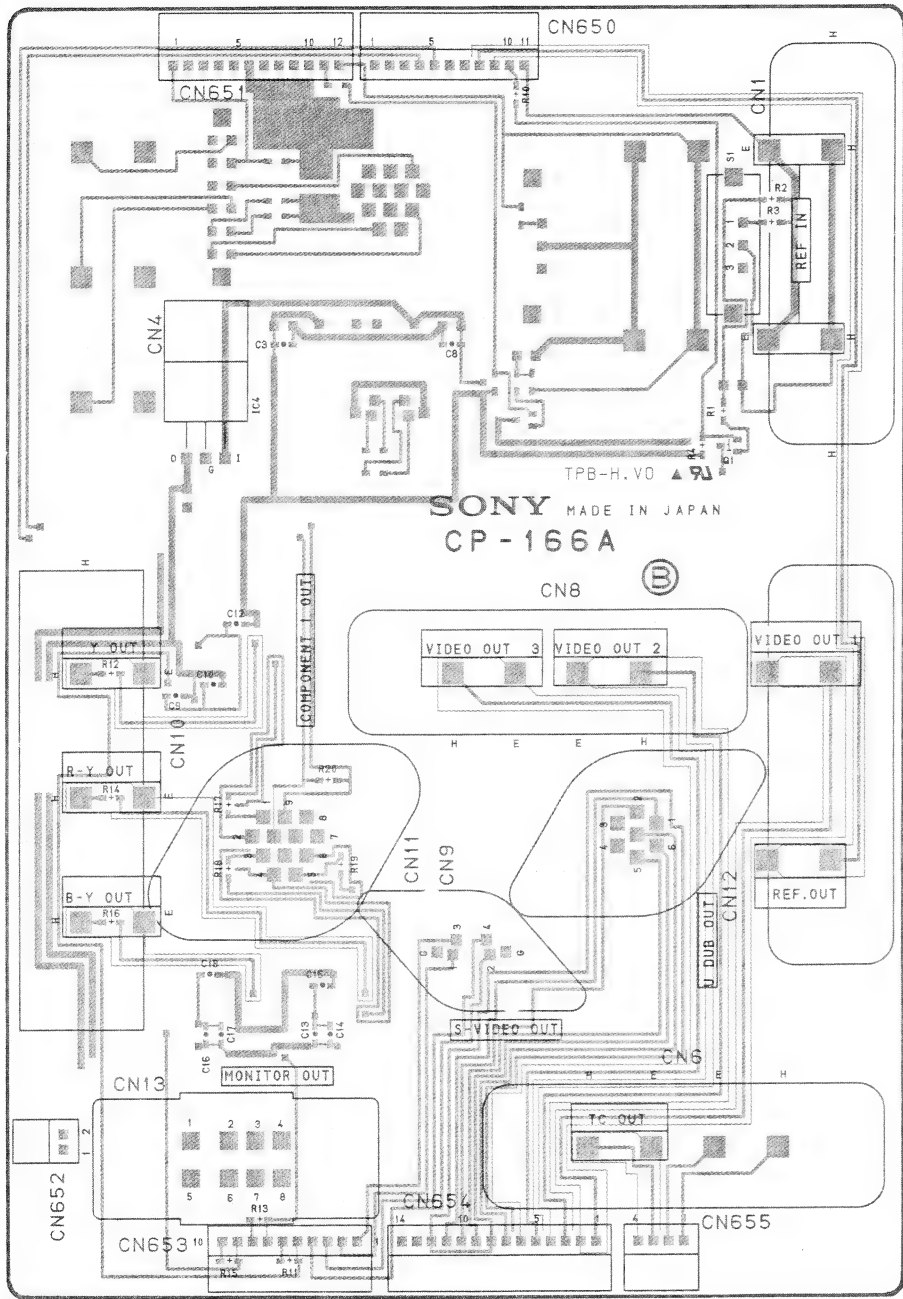
- S 1 A-1

* : B SIDE

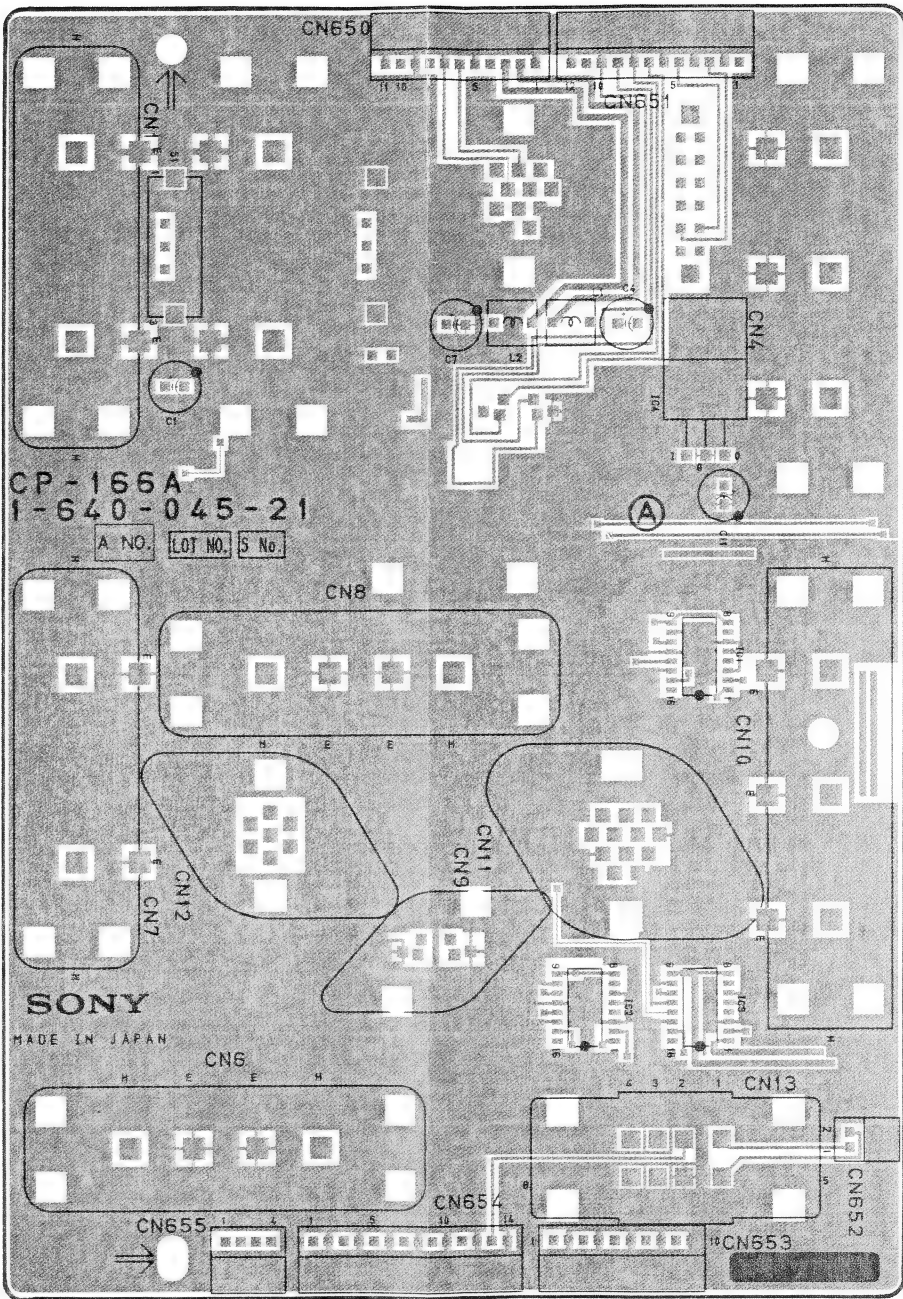
RIVER

CP-166A (1-640-045-21)

- | | |
|--------|-----|
| CN 1 | A-1 |
| CN 2 | B-2 |
| CN 3 | C-2 |
| CN 4 | D-1 |
| CN 5 | D-1 |
| CN 6 | A-6 |
| CN 7 | A-4 |
| CN 8 | B-3 |
| CN 9 | B-5 |
| CN 10 | D-4 |
| CN 11 | D-4 |
| CN 12 | B-4 |
| CN 13 | C-6 |
| CN 650 | B-1 |
| CN 651 | C-1 |
| CN 652 | D-6 |
| CN 653 | C-6 |
| CN 654 | B-6 |
| CN 655 | A-6 |
| IC 1 | D-3 |
| IC 2 | C-5 |
| IC 3 | D-5 |
| IC 4 | C-2 |
| L 1 | C-2 |
| L 2 | C-2 |
| *Q 1 | A-3 |
| *Q 2 | B-2 |
| S 1 | B-1 |
| S 2 | B-2 |
| S 3 | D-2 |
- * : B SIDE



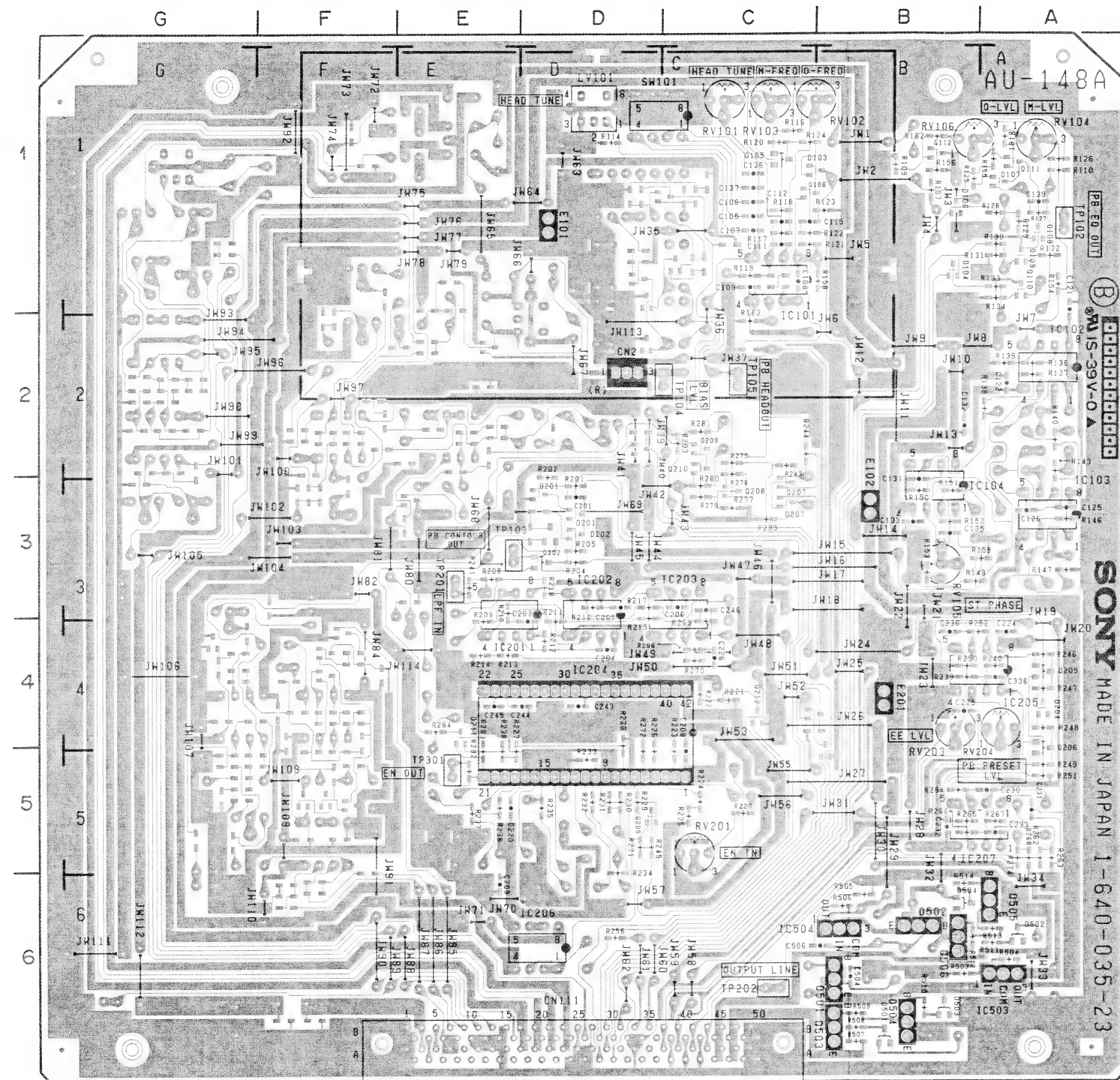
CP-166A 1-640-045-21 B SIDE



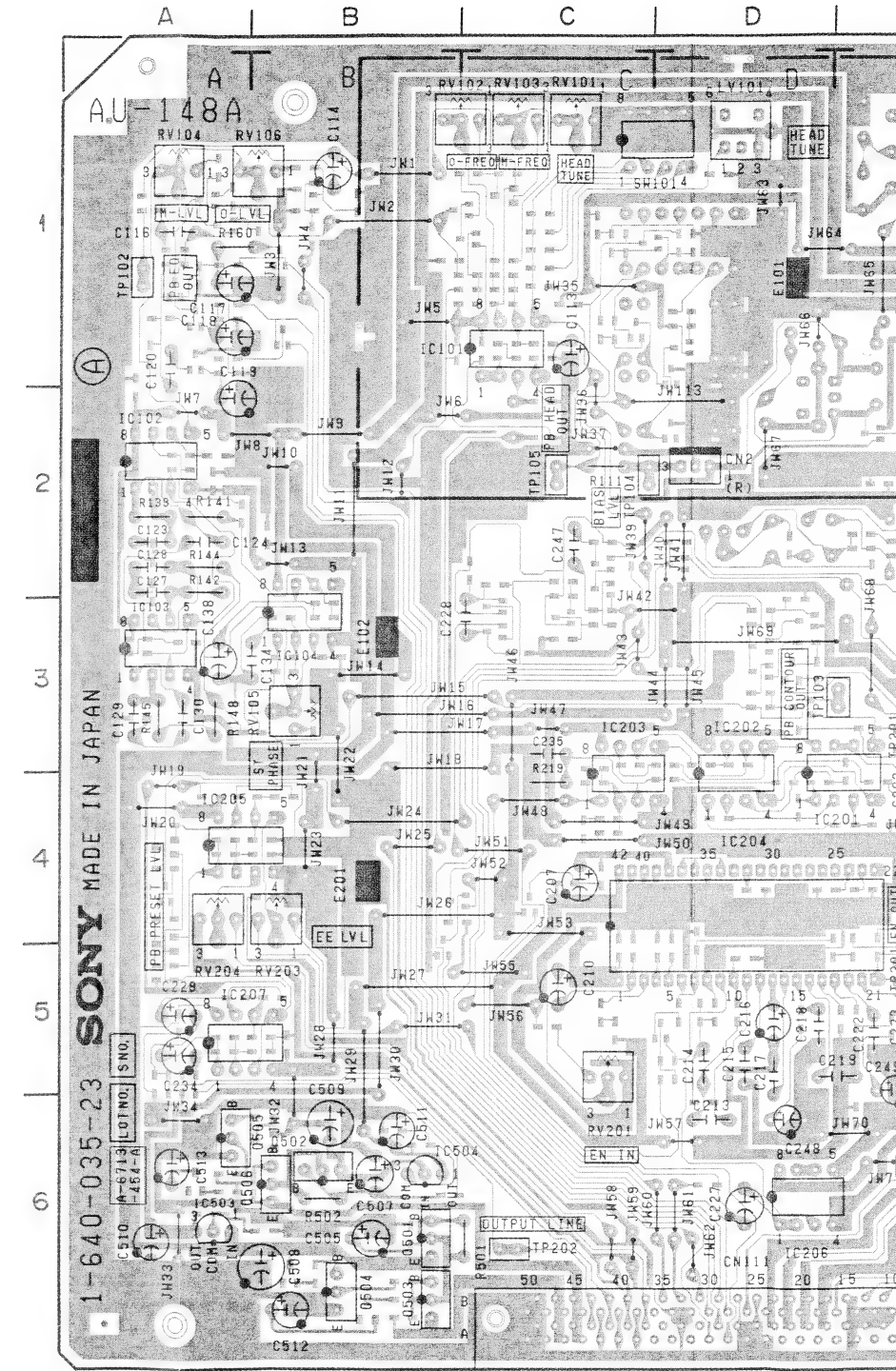
CP-166A 1-640-045-21 A SIDE

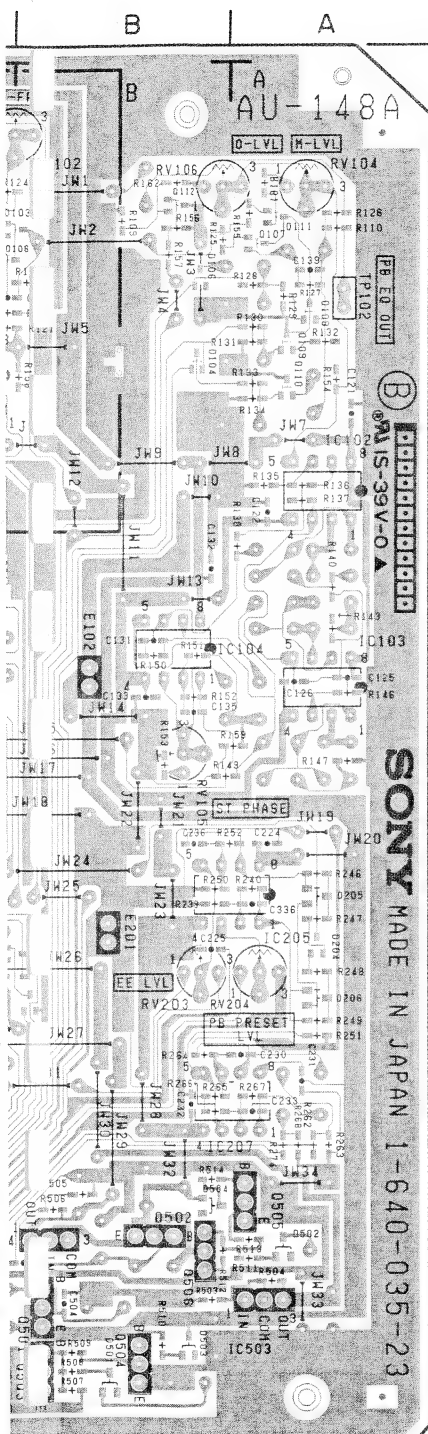
Serial No. (EK); 14586 and higher
Serial No. (UC); 10011 and higher

AU-148AP ; AUDIO CH-1 REC/PB PROCESS, DOLBY SYSTEM

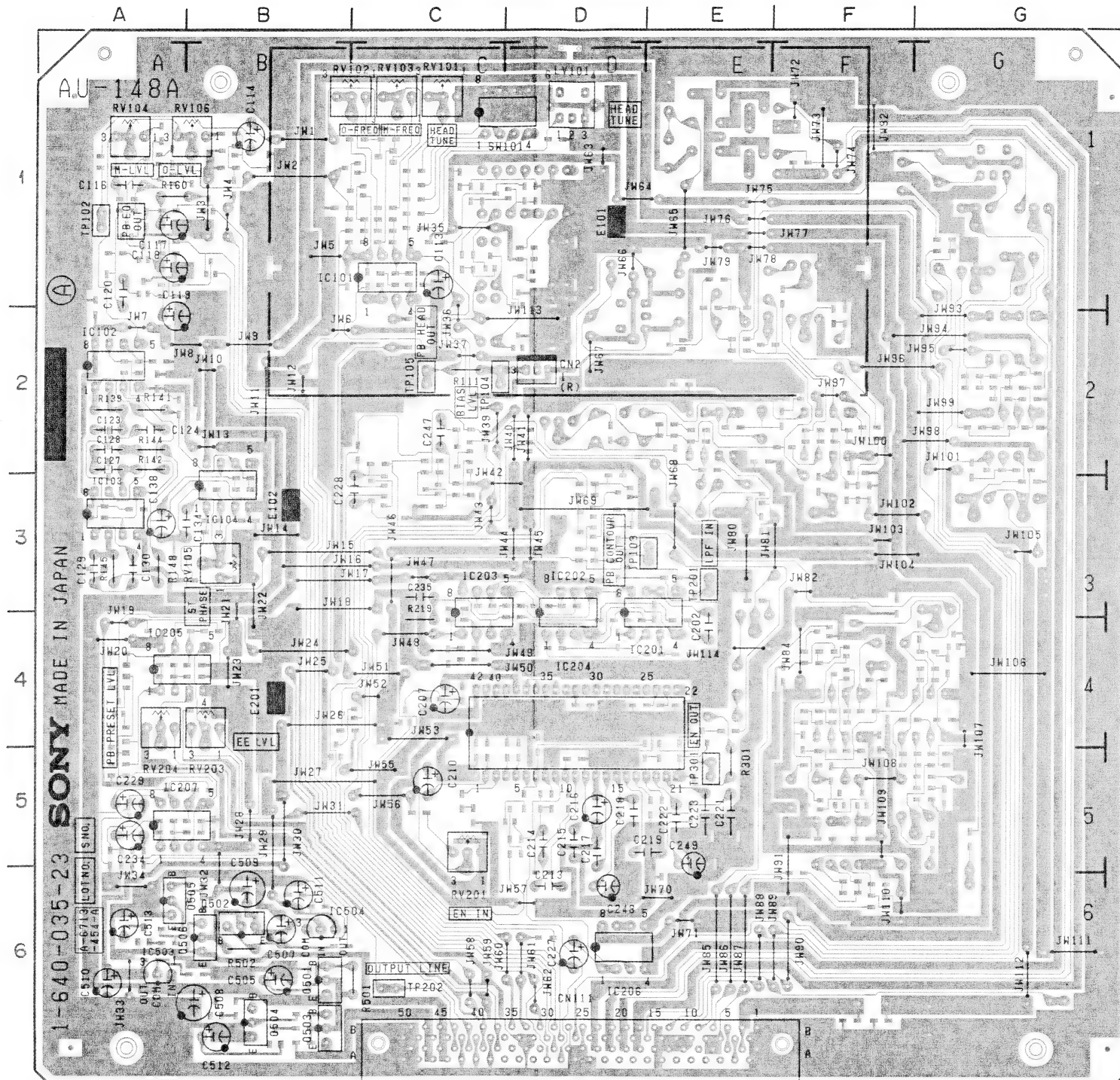


AU-148AP 1-640-035-23 B SIDE





AU-148AP 1-640-035-23 B SIDE



AU-148AP 1-640-035-23 A SIDE

AU-148AP (1-640-035-23)

CN 2	D-2	TP 102	A-1
CN 111	D-6	TP 103	E-3
		TP 202	C-6
		TP 301	E-4
*D 103	B-1		
*D 104	B-1		
*D 201	D-3		
*D 202	D-3		
*D 204	A-4		
*D 207	C-3		
*D 209	C-2		
*D 501	B-6		
*D 502	A-6		
*D 503	B-6		
*D 504	B-6		
IC 101	C-1		
IC 102	A-2		
IC 103	A-3		
IC 104	B-3		
IC 201	E-3		
IC 202	D-3		
IC 203	C-3		
IC 204	D-4		
IC 205	A-4		
IC 206	D-6		
IC 207	A-5		
IC 503	B-6		
IC 504	B-6		
LV 101	D-1		
*Q 105	C-1		
*Q 106	C-1		
*Q 107	A-1		
*Q 108	A-1		
*Q 109	A-1		
*Q 110	A-1		
*Q 111	A-1		
*Q 112	B-1		
*Q 201	D-3		
*Q 202	D-3		
*Q 205	A-4		
*Q 206	A-5		
*Q 207	C-3		
*Q 208	C-3		
*Q 209	D-5		
*Q 210	C-2		
*Q 211	E-5		
*Q 212	C-4		
Q 501	B-6		
Q 502	B-6		
Q 503	B-6		
Q 504	B-6		
Q 505	B-6		
Q 506	B-6		
RV 101	C-1		
RV 102	C-1		
RV 103	C-1		
RV 104	A-1		
RV 105	B-3		
RV 106	B-1		
RV 201	C-5		
RV 203	B-4		
RV 204	A-4		
SW101	C-1		

* : B SIDE

AU-148AP AU-148AP

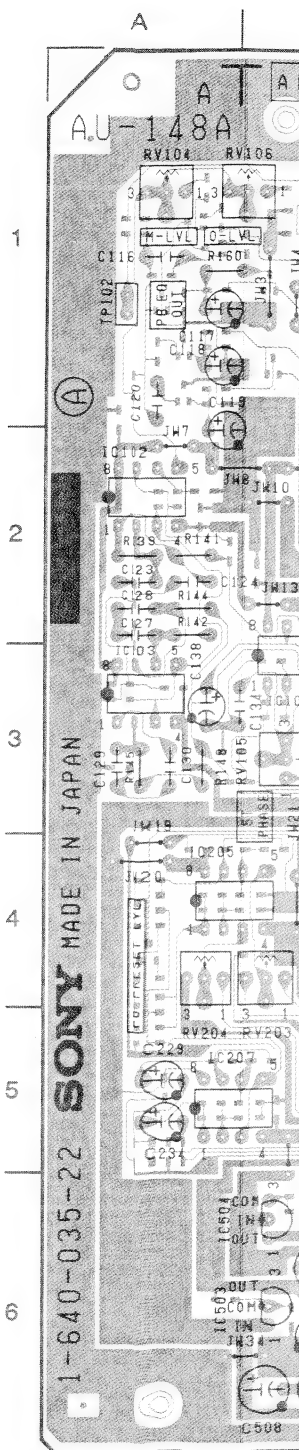
AU-148AP (1-640-035-22)

CN 2	A-2	SW101	C-1
CN 111	D-6		
		TP 102	A-1
*D 101	C-1	TP 103	E-3
*D 102	D-1	TP 104	C-2
*D 104	B-1	TP 105	C-2
*D 105	D-2	TP 201	E-3
*D 201	D-3	TP 202	C-6
*D 202	D-3	TP 301	E-4
*D 204	A-4		
*D 206	C-2		
*D 207	C-3		
*D 208	C-3		
*D 209	C-2		
E 101	D-1		
E 102	B-3		
E 201	B-4		
IC 101	C-1		
IC 102	A-2		
IC 103	A-3		
IC 104	B-3		
IC 105	D-1		
IC 201	E-3		
IC 202	D-3		
IC 203	C-3		
IC 204	D-4		
IC 205	A-4		
IC 206	D-6		
IC 207	A-5		
IC 503	B-6		
IC 504	B-6		
LV 101	D-1		
L 501	F-6		
*Q 101	C-1		
*Q 102	D-1		
*Q 108	A-1		
*Q 109	A-1		
*Q 110	A-1		
*Q 201	D-3		
*Q 202	D-3		
*Q 205	A-4		
*Q 206	A-5		
*Q 207	C-3		
*Q 208	C-3		
*Q 209	D-5		
*Q 210	C-2		
*Q 211	E-5		
*Q 212	C-4		
*Q 501	B-6		
*Q 502	B-6		
RV 101	C-1		
RV 102	C-1		
RV 103	C-1		
RV 104	A-1		
RV 105	B-3		
RV 106	B-1		
RV 201	C-5		
RV 203	B-4		
RV 204	A-4		
RV 301	E-4		
RY101	D-1		
RY102	D-2		

The image shows a top-down view of a Sony AU-148A television chassis. The circuit board is densely packed with components. Key features include:

- Connectors:** Numerous J-wire connectors (e.g., JH1, JH2, JH3, JH4, JH5, JH6, JH7, JH8, JH9, JH10, JH11, JH12, JH13, JH14, JH15, JH16, JH17, JH18, JH19, JH20, JH21, JH22, JH23, JH24, JH25, JH26, JH27, JH28, JH29, JH30, JH31, JH32, JH33, JH34, JH35, JH36, JH37, JH38, JH39, JH40, JH41, JH42, JH43, JH44, JH45, JH46, JH47, JH48, JH49, JH50, JH51, JH52, JH53, JH54, JH55, JH56, JH57, JH58, JH59, JH60, JH61, JH62, JH63, JH64, JH65, JH66, JH67, JH68, JH69, JH70, JH71, JH72, JH73, JH74, JH75, JH76, JH77, JH78, JH79, JH80, JH81, JH82, JH83, JH84, JH85, JH86, JH87, JH88, JH89, JH90, JH91, JH92, JH93, JH94, JH95, JH96, JH97, JH98, JH99, JH100, JH101, JH102, JH103, JH104, JH105, JH106, JH107, JH108, JH109, JH110, JH111, JH112, JH113, JH114, JH115, JH116, JH117, JH118, JH119, JH120, JH121, JH122, JH123, JH124, JH125, JH126, JH127, JH128, JH129, JH130, JH131, JH132, JH133, JH134, JH135, JH136, JH137, JH138, JH139, JH140, JH141, JH142, JH143, JH144, JH145, JH146, JH147, JH148, JH149, JH150, JH151, JH152, JH153, JH154, JH155, JH156, JH157, JH158, JH159, JH160, JH161, JH162, JH163, JH164, JH165, JH166, JH167, JH168, JH169, JH170, JH171, JH172, JH173, JH174, JH175, JH176, JH177, JH178, JH179, JH180, JH181, JH182, JH183, JH184, JH185, JH186, JH187, JH188, JH189, JH190, JH191, JH192, JH193, JH194, JH195, JH196, JH197, JH198, JH199, JH200, JH201, JH202, JH203, JH204, JH205, JH206, JH207, JH208, JH209, JH210, JH211, JH212, JH213, JH214, JH215, JH216, JH217, JH218, JH219, JH220, JH221, JH222, JH223, JH224, JH225, JH226, JH227, JH228, JH229, JH230, JH231, JH232, JH233, JH234, JH235, JH236, JH237, JH238, JH239, JH240, JH241, JH242, JH243, JH244, JH245, JH246, JH247, JH248, JH249, JH250, JH251, JH252, JH253, JH254, JH255, JH256, JH257, JH258, JH259, JH260, JH261, JH262, JH263, JH264, JH265, JH266, JH267, JH268, JH269, JH270, JH271, JH272, JH273, JH274, JH275, JH276, JH277, JH278, JH279, JH280, JH281, JH282, JH283, JH284, JH285, JH286, JH287, JH288, JH289, JH290, JH291, JH292, JH293, JH294, JH295, JH296, JH297, JH298, JH299, JH300, JH301, JH302, JH303, JH304, JH305, JH306, JH307, JH308, JH309, JH310, JH311, JH312, JH313, JH314, JH315, JH316, JH317, JH318, JH319, JH320, JH321, JH322, JH323, JH324, JH325, JH326, JH327, JH328, JH329, JH330, JH331, JH332, JH333, JH334, JH335, JH336, JH337, JH338, JH339, JH340, JH341, JH342, JH343, JH344, JH345, JH346, JH347, JH348, JH349, JH350, JH351, JH352, JH353, JH354, JH355, JH356, JH357, JH358, JH359, JH360, JH361, JH362, JH363, JH364, JH365, JH366, JH367, JH368, JH369, JH370, JH371, JH372, JH373, JH374, JH375, JH376, JH377, JH378, JH379, JH380, JH381, JH382, JH383, JH384, JH385, JH386, JH387, JH388, JH389, JH390, JH391, JH392, JH393, JH394, JH395, JH396, JH397, JH398, JH399, JH400, JH401, JH402, JH403, JH404, JH405, JH406, JH407, JH408, JH409, JH410, JH411, JH412, JH413, JH414, JH415, JH416, JH417, JH418, JH419, JH420, JH421, JH422, JH423, JH424, JH425, JH426, JH427, JH428, JH429, JH430, JH431, JH432, JH433, JH434, JH435, JH436, JH437, JH438, JH439, JH440, JH441, JH442, JH443, JH444, JH445, JH446, JH447, JH448, JH449, JH450, JH451, JH452, JH453, JH454, JH455, JH456, JH457, JH458, JH459, JH460, JH461, JH462, JH463, JH464, JH465, JH466, JH467, JH468, JH469, JH470, JH471, JH472, JH473, JH474, JH475, JH476, JH477, JH478, JH479, JH480, JH481, JH482, JH483, JH484, JH485, JH486, JH487, JH488, JH489, JH490, JH491, JH492, JH493, JH494, JH495, JH496, JH497, JH498, JH499, JH500, JH501, JH502, JH503, JH504, JH505, JH506, JH507, JH508, JH509, JH510, JH511, JH512, JH513, JH514, JH515, JH516, JH517, JH518, JH519, JH520, JH521, JH522, JH523, JH524, JH525, JH526, JH527, JH528, JH529, JH530, JH531, JH532, JH533, JH534, JH535, JH536, JH537, JH538, JH539, JH540, JH541, JH542, JH543, JH544, JH545, JH546, JH547, JH548, JH549, JH550, JH551, JH552, JH553, JH554, JH555, JH556, JH557, JH558, JH559, JH560, JH561, JH562, JH563, JH564, JH565, JH566, JH567, JH568, JH569, JH570, JH571, JH572, JH573, JH574, JH575, JH576, JH577, JH578, JH579, JH580, JH581, JH582, JH583, JH584, JH585, JH586, JH587, JH588, JH589, JH590, JH591, JH592, JH593, JH594, JH595, JH596, JH597, JH598, JH599, JH600, JH601, JH602, JH603, JH604, JH605, JH606, JH607, JH608, JH609, JH610, JH611, JH612, JH613, JH614, JH615, JH616, JH617, JH618, JH619, JH620, JH621, JH622, JH623, JH624, JH625, JH626, JH627, JH628, JH629, JH630, JH631, JH632, JH633, JH634, JH635, JH636, JH637, JH638, JH639, JH640, JH641, JH642, JH643, JH644, JH645, JH646, JH647, JH648, JH649, JH650, JH651, JH652, JH653, JH654, JH655, JH656, JH657, JH658, JH659, JH660, JH661, JH662, JH663, JH664, JH665, JH666, JH667, JH668, JH669, JH670, JH671, JH672, JH673, JH67

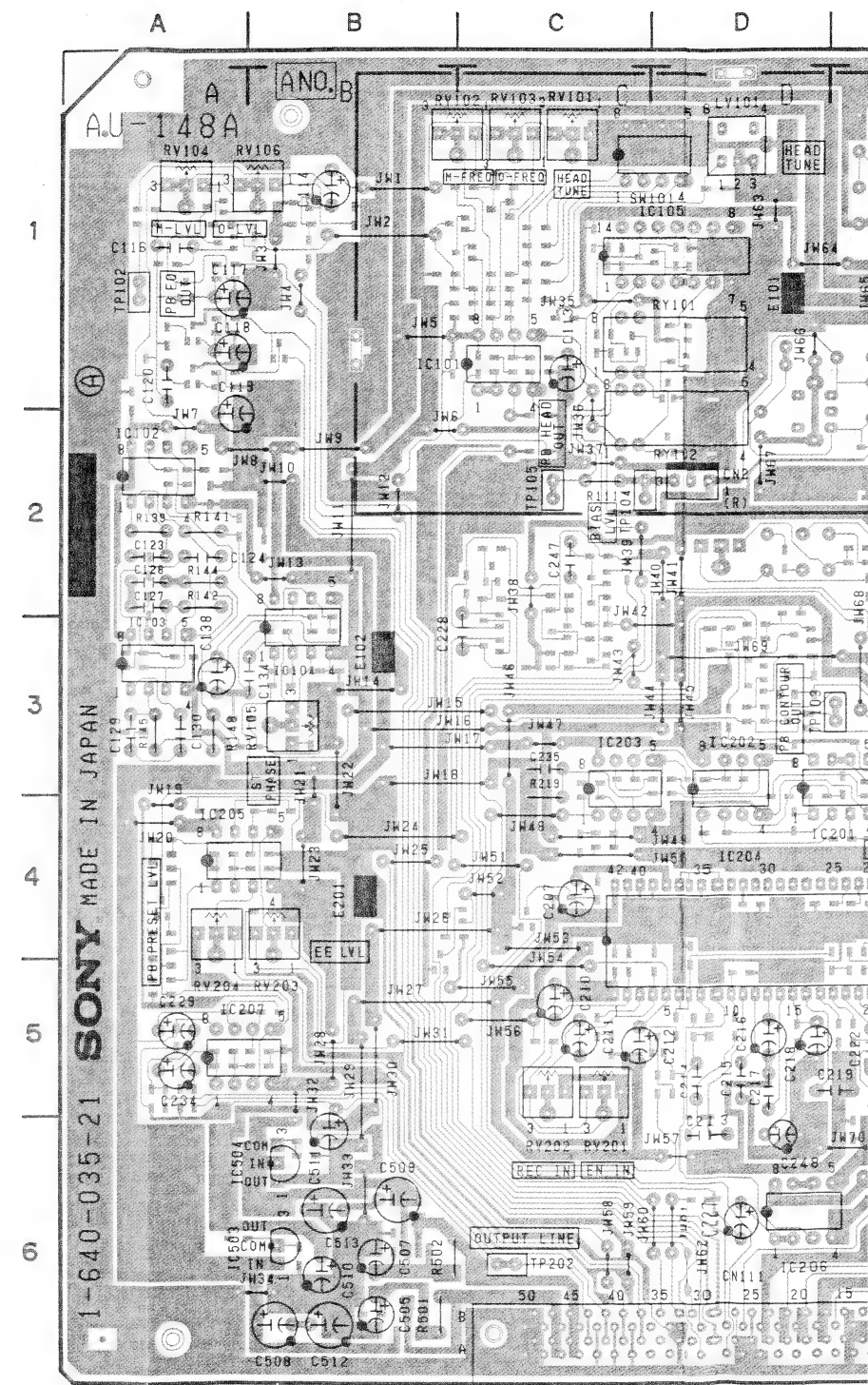
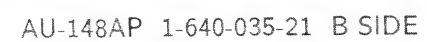
AU-148AP 1-640-035-22 B SIDE



A detailed black and white photograph of a Sony electronic circuit board, model AU-148A. The board is densely packed with components including integrated circuits (ICs), resistors, capacitors, and various connectors. Labels such as "HEAD TUNE", "PB EQ OUT", "CON IN", and "OUTPUT LINE" are visible. A scale bar at the bottom indicates measurements from 0 to 50 units. The text "SONY MADE IN JAPAN 1-640-035-22" is printed vertically along the right edge.

15-8(b)

AU-148AP ; AUDIO CH-1 REC/PB PROCESS, DOLBY SYSTEM





U-148AP 1-640-035-21 B SIDE



AU-148AP 1-640-035-21 A SIDE

* : B SIDE

Serial No. (EK); 14586 and higher
Serial No. (UC); 10011 and higher

AU-149AP AU-149AP

AU-149AP ; AUDIO CH-2 PB PROCESS, DOLBY SYSTEM

AU-149AP (1-640-036-23)

CN 2	D-2	TP 102	A-1
CN 110	D-6	TP 103	E-3
		TP 202	C-6
		TP 301	E-4

*D 103	B-1
*D 104	B-1
*D 201	D-3
*D 202	D-3
*D 204	A-4
*D 207	C-3
*D 209	C-2
*D 501	B-6
*D 502	A-6
*D 503	B-6
*D 504	B-6

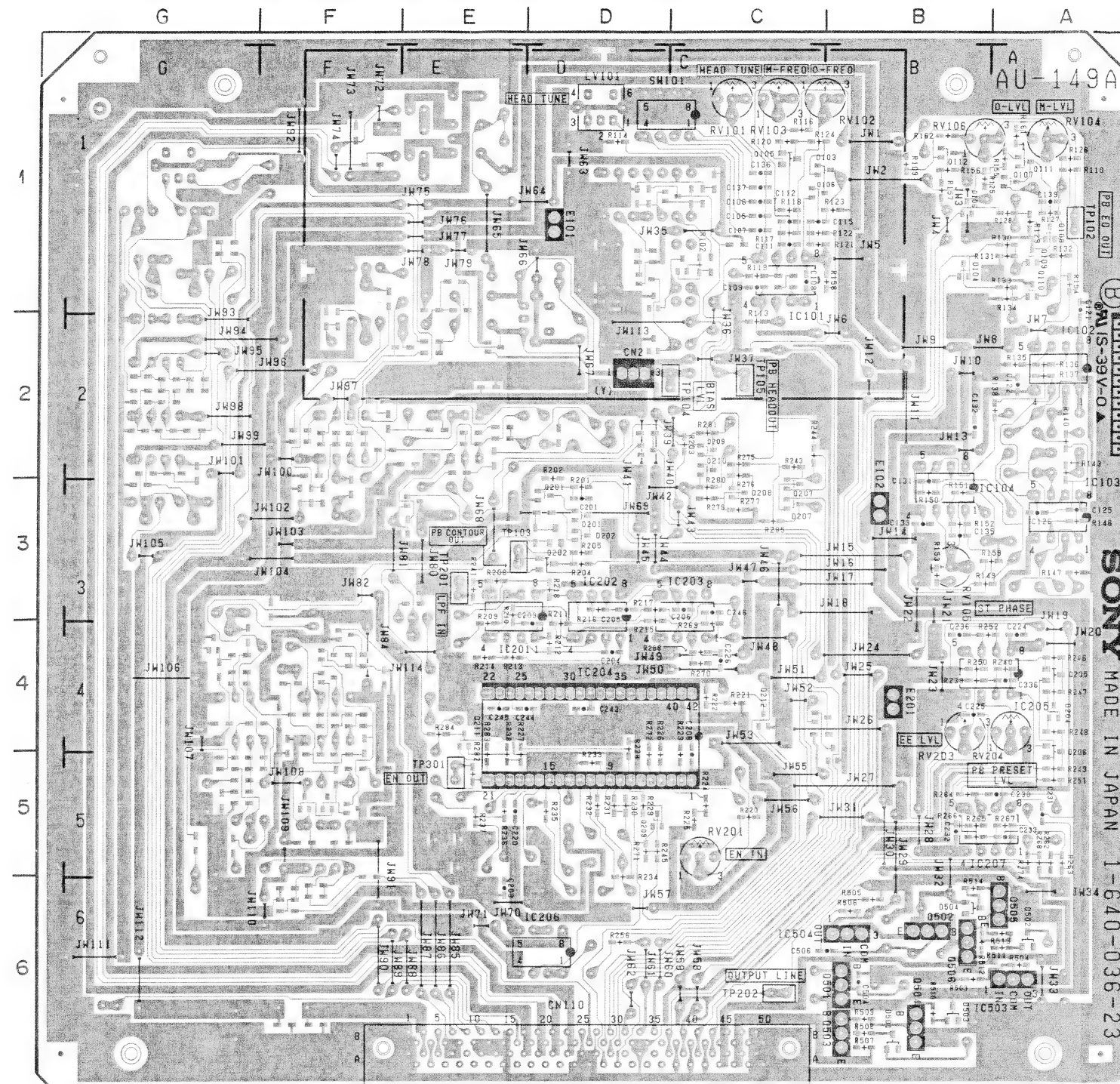
IC 101	C-1
IC 102	A-2
IC 103	A-3
IC 104	B-3
IC 201	E-3
IC 202	D-3
IC 203	C-3
IC 204	D-4
IC 205	A-4
IC 206	D-6
IC 207	A-5
IC 503	B-6
IC 504	B-6

LV 101	D-1
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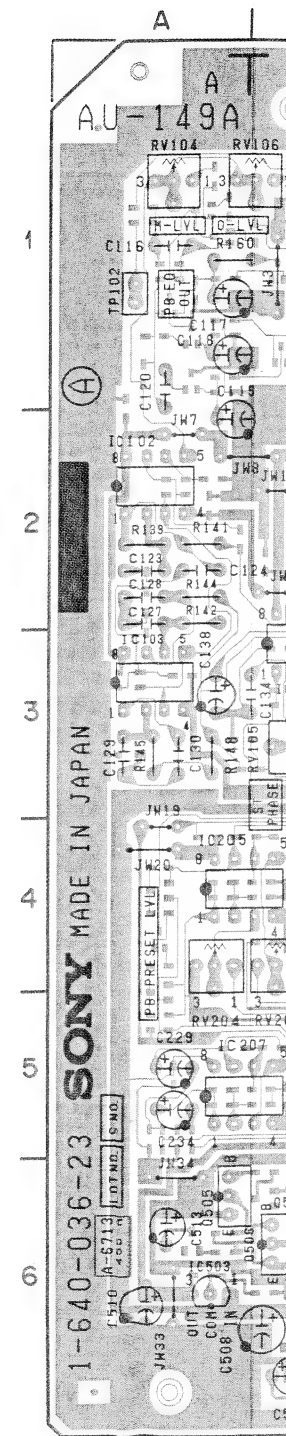
*Q 105	C-1
*Q 106	C-1
*Q 107	A-1
*Q 108	A-1
*Q 109	A-1
*Q 110	A-1
*Q 111	A-1
*Q 112	B-1
*Q 201	D-3
*Q 202	D-3
*Q 205	A-4
*Q 206	A-5
*Q 207	C-3
*Q 208	C-3
*Q 209	D-5
*Q 210	C-2
*Q 211	E-5
*Q 212	C-4
Q 501	B-6
Q 502	B-6
Q 503	B-6
Q 504	B-6
Q 505	B-6
Q 506	B-6

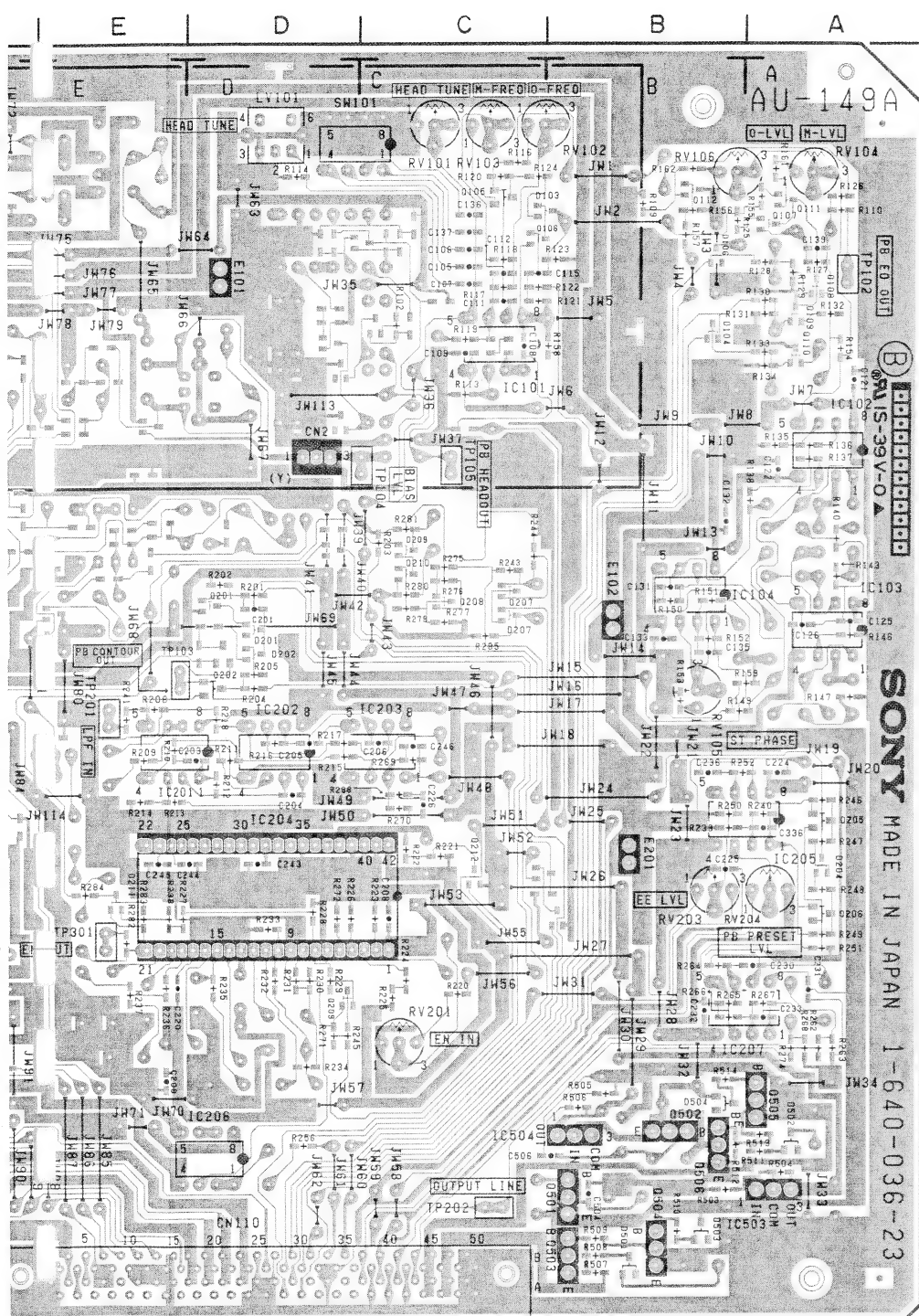
RV 101	C-1
RV 102	C-1
RV 103	C-1
RV 104	A-1
RV 105	B-3
RV 106	B-1
RV 201	C-5
RV 203	B-4
RV 204	A-4
SW101	C-1

* : B SIDE

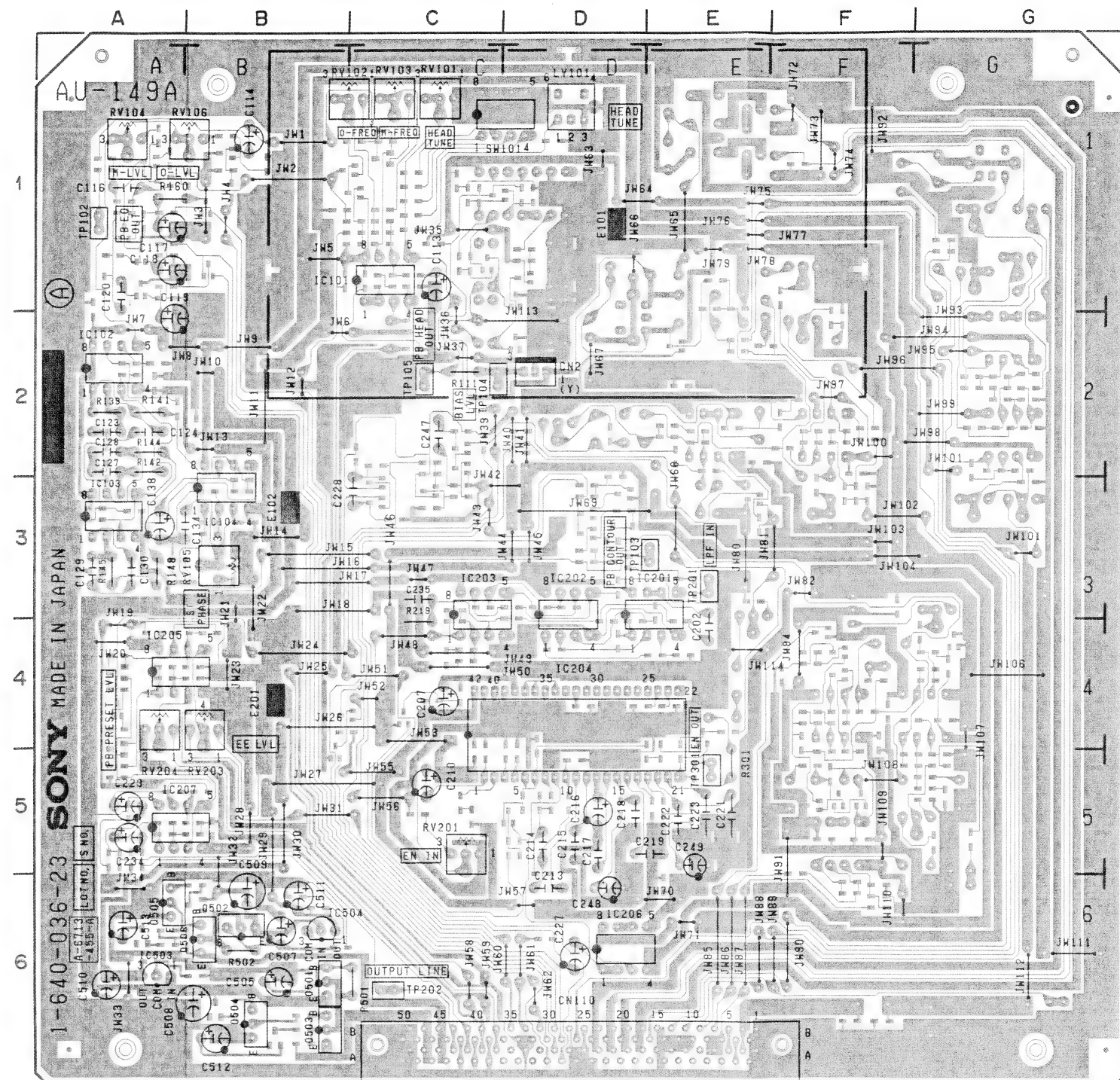


AU-149AP 1-640-036-23 B SIDE





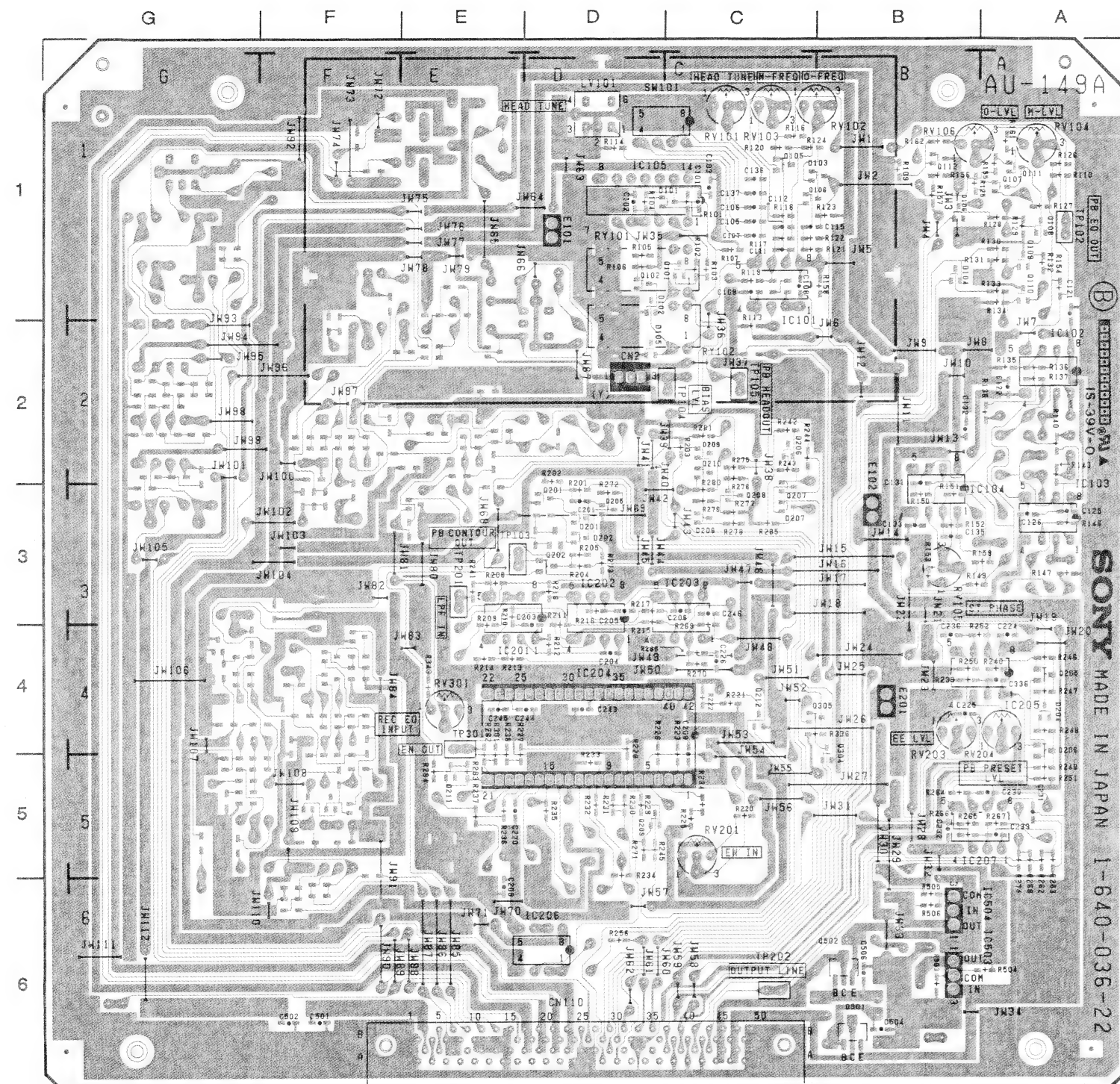
AU-149AP 1-640-036-23 B SIDE



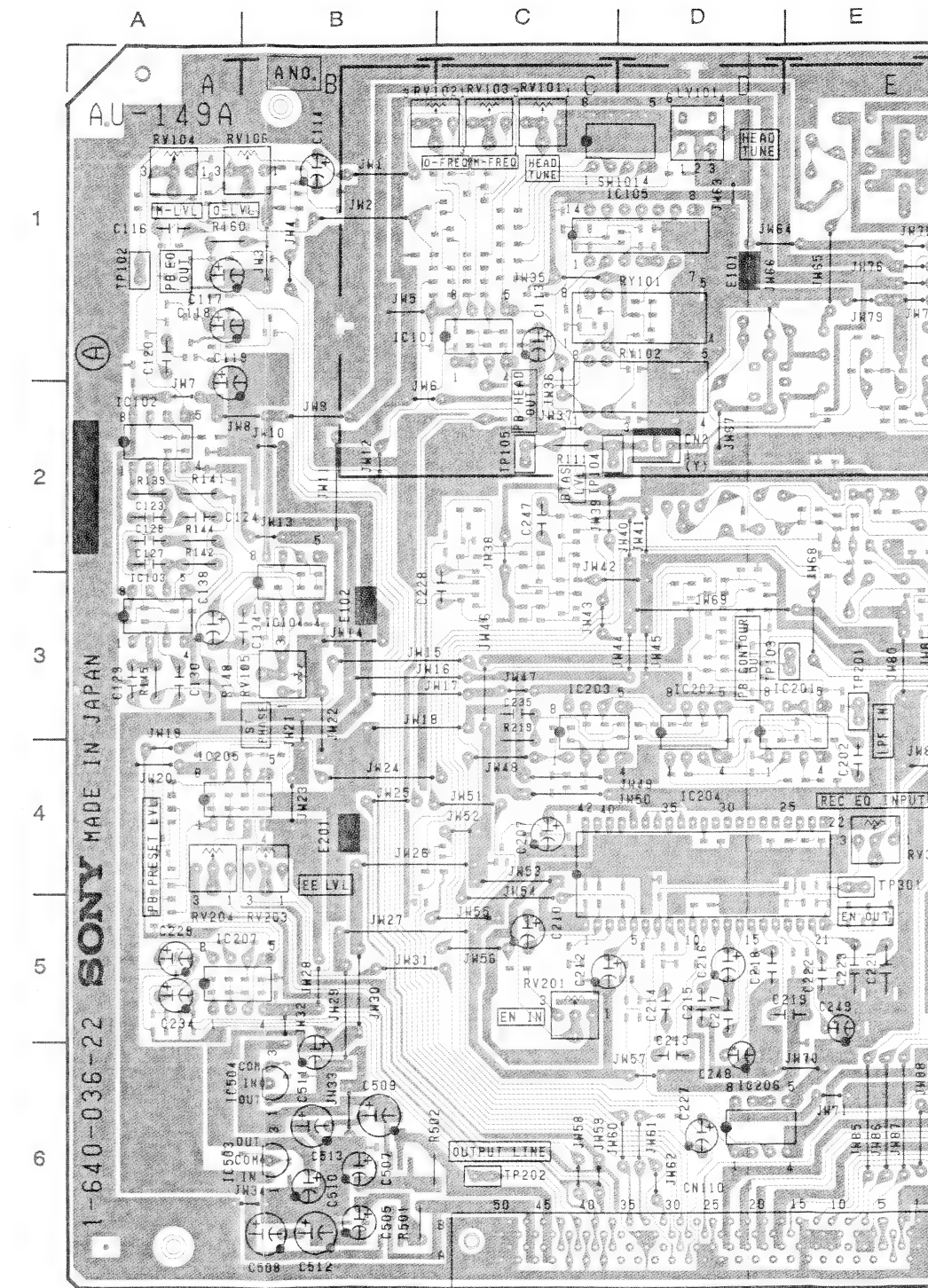
AU-149AP 1-640-036-23 A SIDE

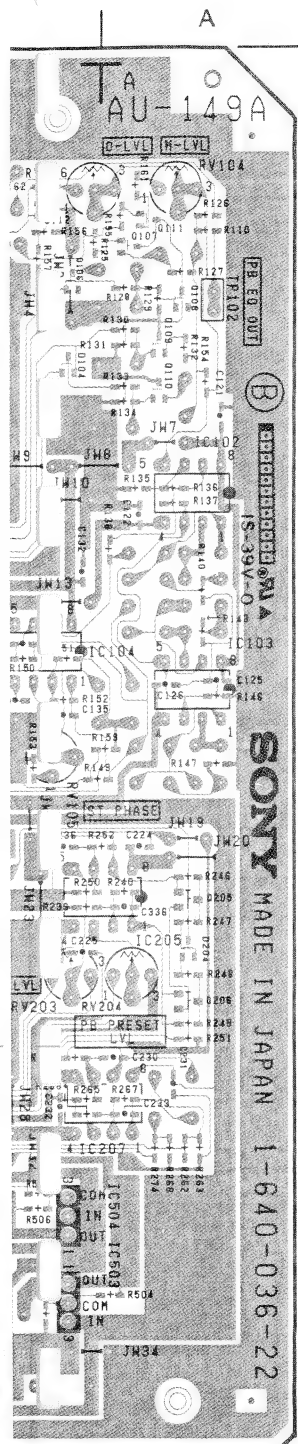
Serial No. (EK) ; 11151 to 14585
Serial No. (UC) ; 10001 to 10010

AU-149AP ; AUDIO CH-2 PB PROCESS, DOLBY SYSTEM

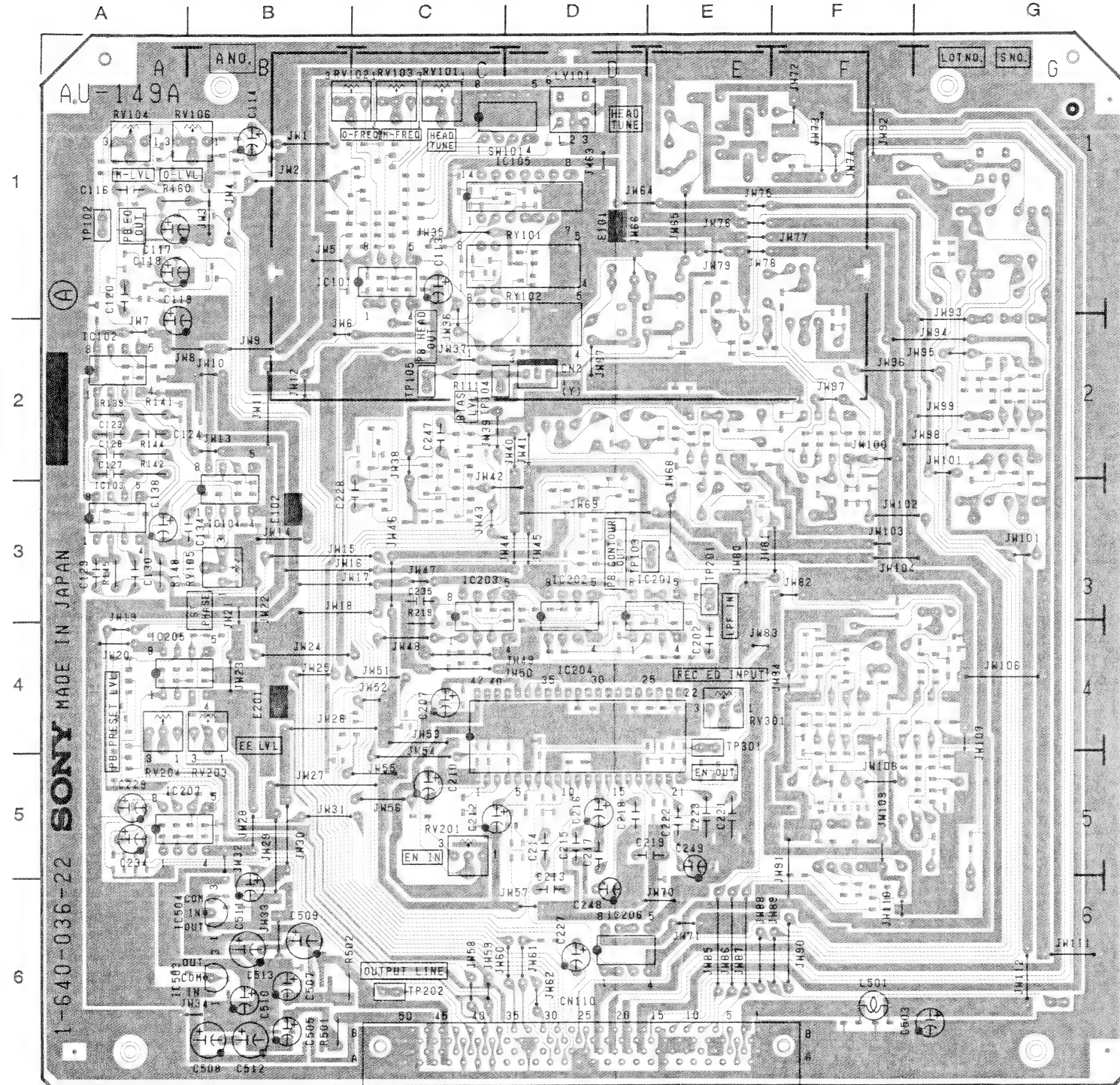


AU-149AP 1-640-036-22 B SIDE





P 1-640-036-22 B SIDE



AU-149AP 1-640-036-22 A SIDE

AU-149AP (1-640-036-22)

CN 2	A-2	TP 102	A-1
CN 110	D-6	TP 103	E-3
		TP 104	C-2
*D 101	C-1	TP 105	C-2
*D 102	D-1	TP 201	E-3
*D 104	B-1	TP 202	C-6
*D 105	D-2	TP 301	E-4
*D 201	D-3		
*D 202	D-3		
*D 204	A-4		
*D 206	C-2		
*D 207	C-3		
*D 208	C-3		
*D 209	C-2		
E 101	D-1		
E 102	B-3		
E 201	B-4		
IC 101	C-1		
IC 102	A-2		
IC 103	A-3		
IC 104	B-3		
IC 105	D-1		
IC 201	E-3		
IC 202	D-3		
IC 203	C-3		
IC 204	D-4		
IC 205	A-4		
IC 206	D-6		
IC 207	A-5		
IC 503	B-6		
IC 504	B-6		
LV 101	D-1		
L 501	F-6		
*Q 101	C-1		
*Q 102	D-1		
*Q 108	A-1		
*Q 109	A-1		
*Q 110	A-1		
*Q 201	D-3		
*Q 202	D-3		
*Q 205	A-4		
*Q 206	A-5		
*Q 207	C-3		
*Q 208	C-3		
*Q 209	D-5		
*Q 210	C-2		
*Q 211	E-5		
*Q 212	C-4		
*Q 501	B-6		
*Q 502	B-6		
RV 101	C-1		
RV 102	C-1		
RV 105	B-3		
RV 106	B-1		
RV 201	C-5		
RV 203	B-4		
RV 204	A-4		
RV 301	E-4		
RY101	D-1		
RY102	D-2		
SW101	C-1		

* : B SIDE

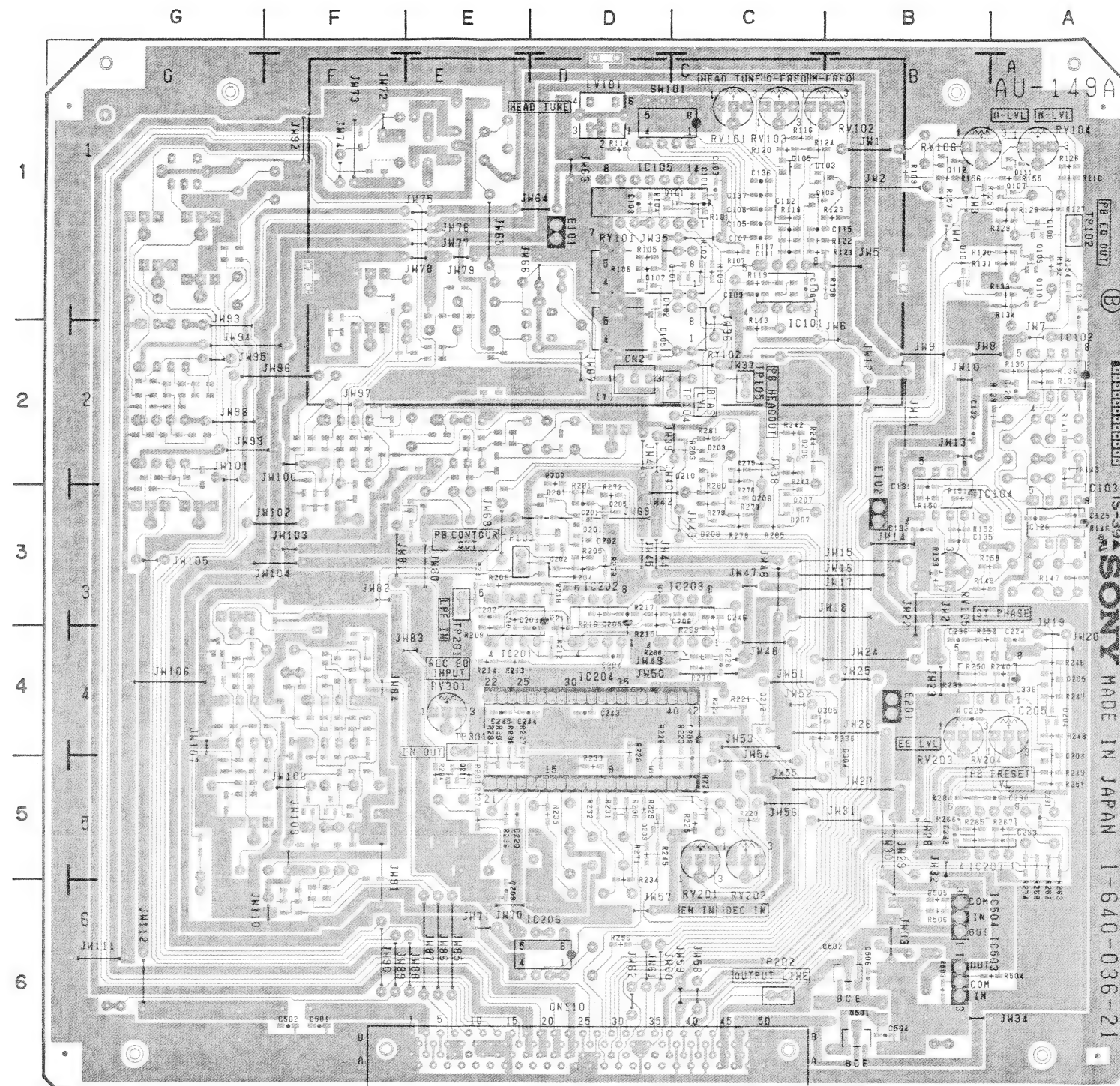
Serial No. (EK); 10001 to 11150

AU-149AP ; AUDIO CH-2 PB PROCESS, DOLBY SYSTEM

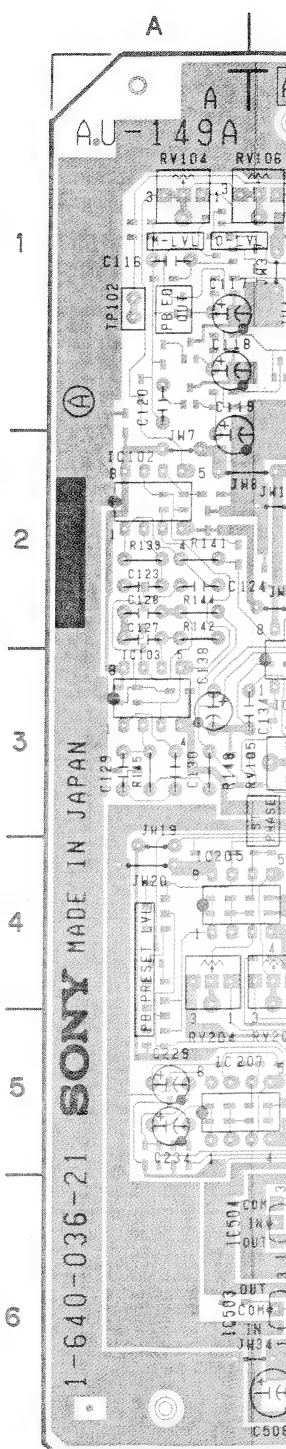
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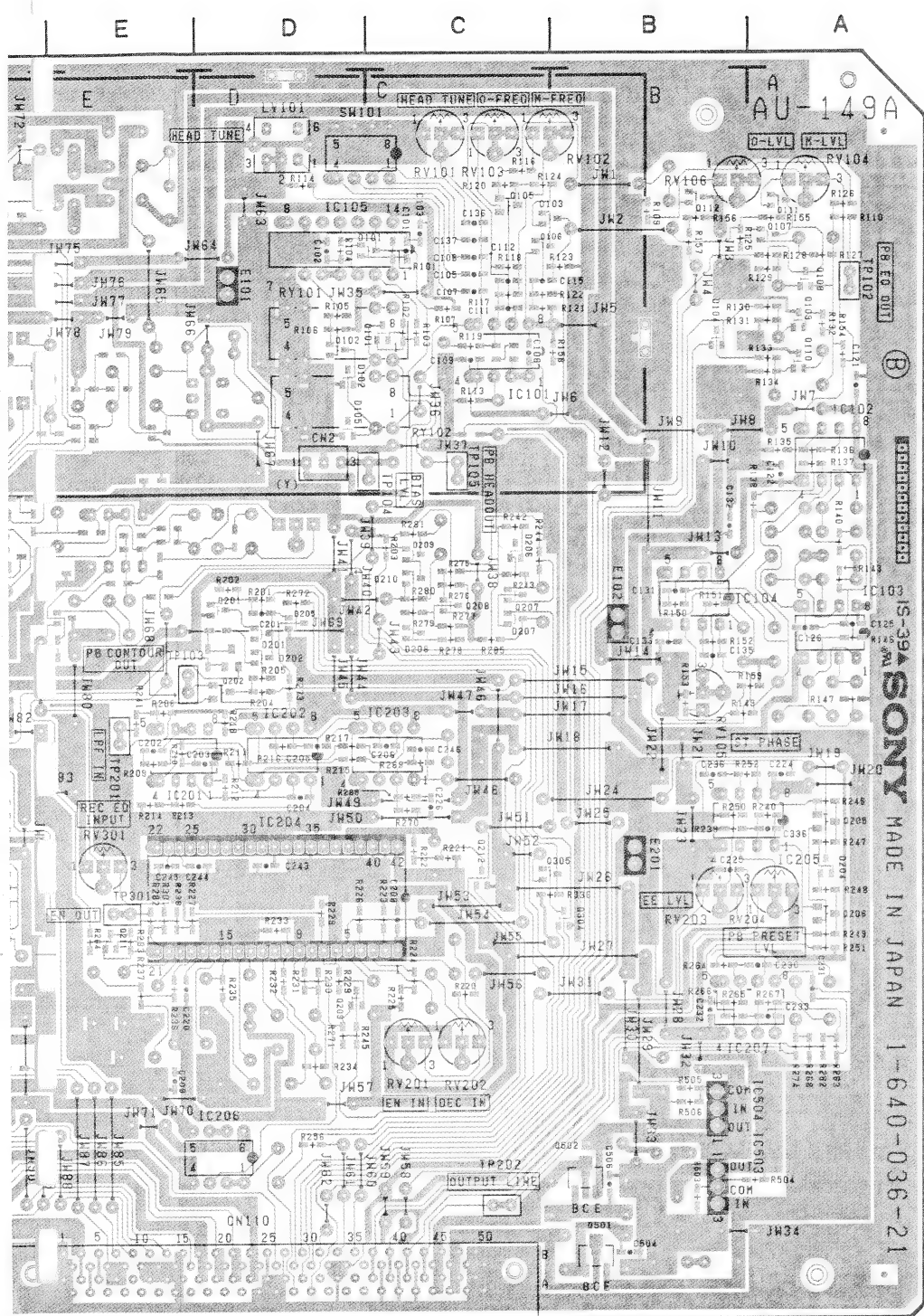
CN 2	D-2	RY101	D-1
CN 110	D-6	RY102	D-2
*D 101	C-1	SW101	C-1
*D 102	D-1		
*D 104	B-1	TP 102	A-1
*D 105	D-2	TP 103	E-3
*D 201	D-3	TP 104	C-2
*D 202	D-3	TP 105	C-2
*D 204	A-4	TP 201	E-3
*D 206	C-2	TP 202	C-6
*D 207	C-3	TP 301	E-4
*D 208	C-3		
*D 209	C-2		
E 101	D-1		
E 102	B-3		
E 201	B-4		
IC 101	C-1		
IC 102	A-2		
IC 103	A-3		
IC 104	B-3		
IC 105	D-1		
IC 201	E-3		
IC 202	D-3		
IC 203	C-3		
IC 204	D-4		
IC 205	A-4		
IC 206	D-6		
IC 207	A-5		
IC 503	B-6		
IC 504	B-6		
LV 101	D-1		
L 501	F-6		
*Q 101	C-1		
*Q 102	D-1		
*Q 108	A-1		
*Q 109	A-1		
*Q 110	A-1		
*Q 201	D-3		
*Q 202	D-3		
*Q 205	A-4		
*Q 206	A-5		
*Q 207	C-3		
*Q 208	C-3		
*Q 209	D-5		
*Q 210	C-2		
*Q 211	E-5		
*Q 212	C-4		
*Q 501	B-6		
*Q 502	B-6		
RV 101	C-1		
RV 102	C-1		
RV 104	A-1		
RV 105	B-3		
RV 106	B-1		
RV 201	C-5		
RV 203	B-4		
RV 204	A-4		
RV 301	E-4		

* : B SIDE

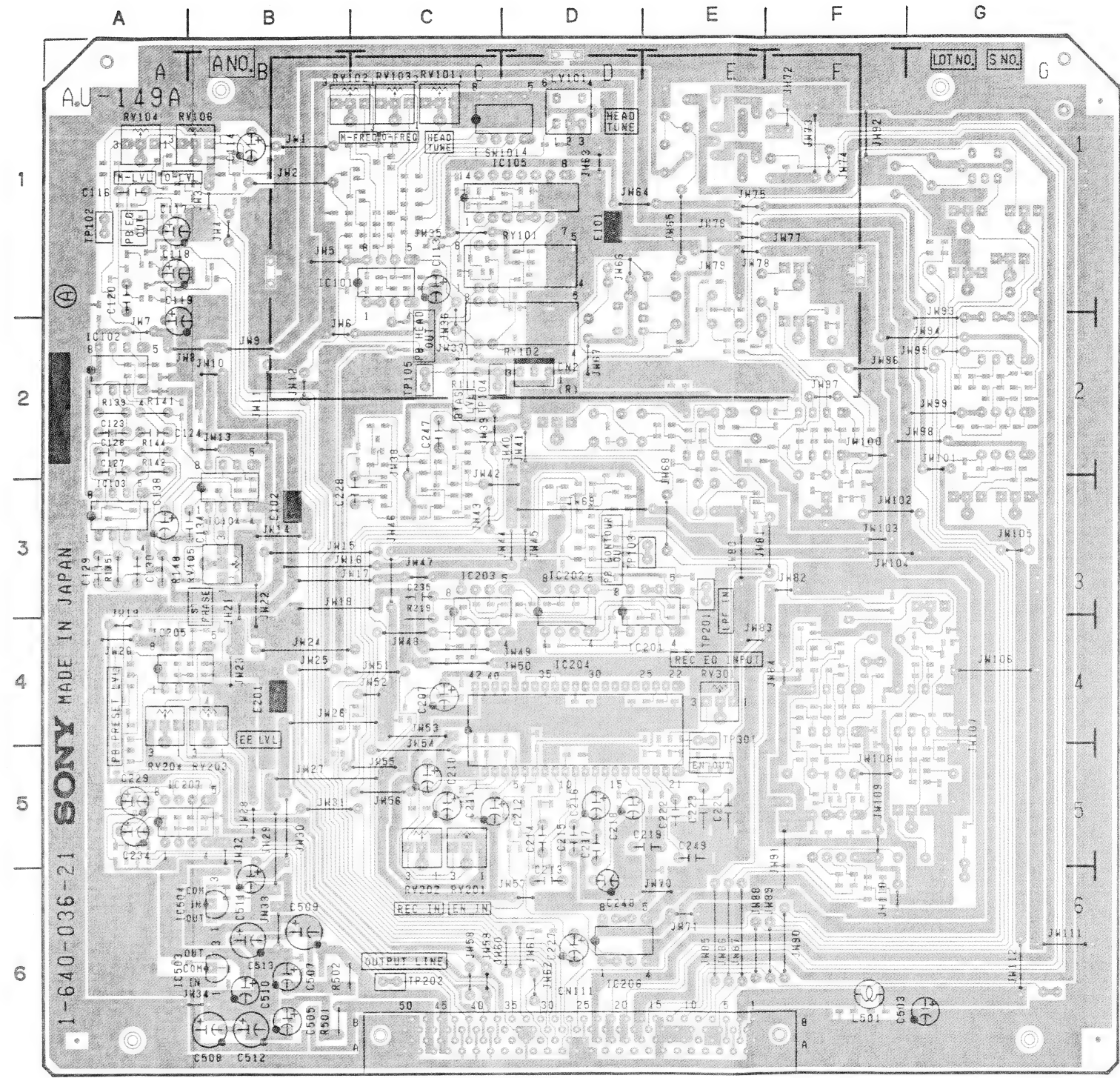


AU-149AP 1-640-036-21 B SIDE



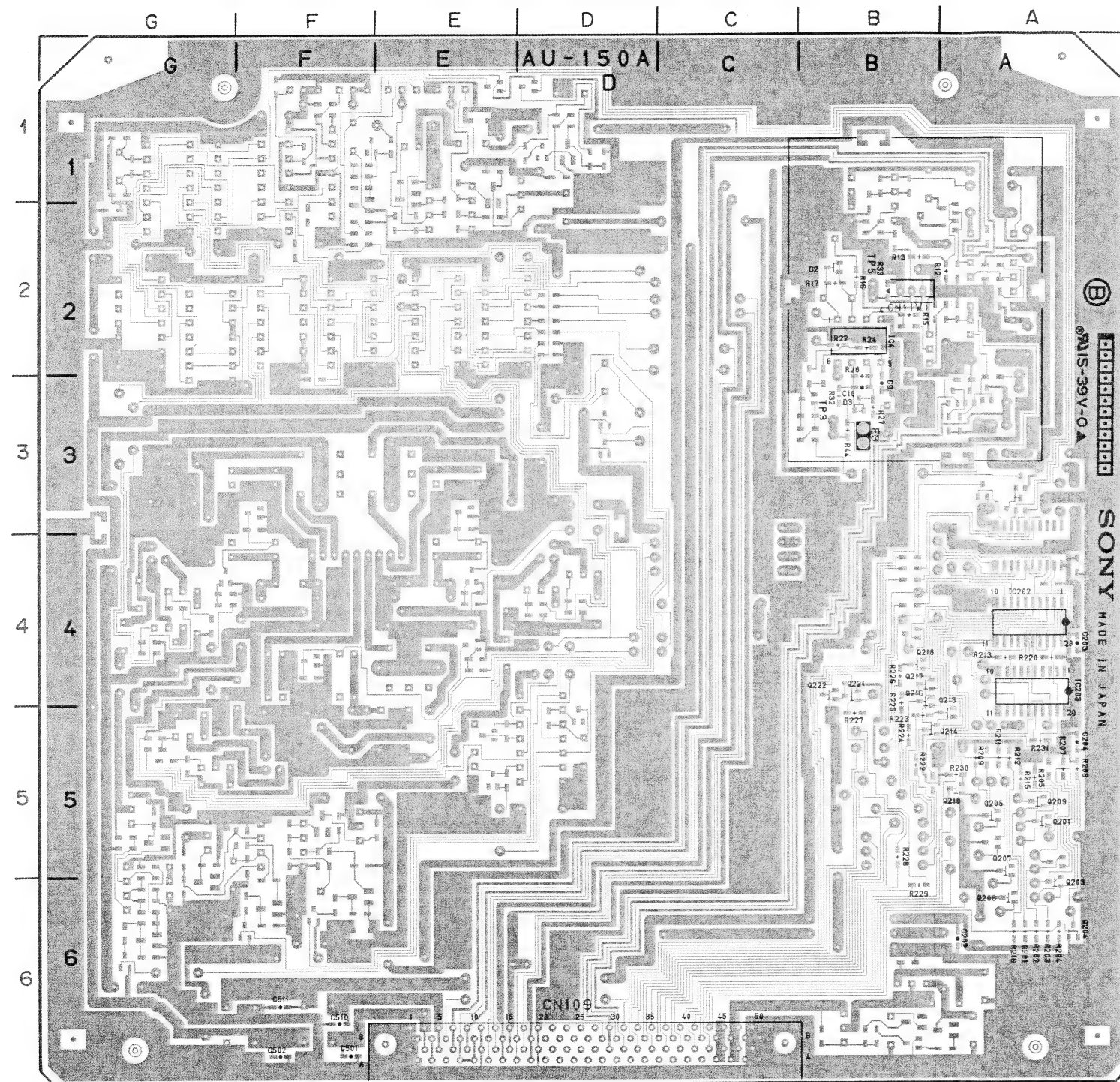


AU-149AP 1-640-036-21 B SIDE

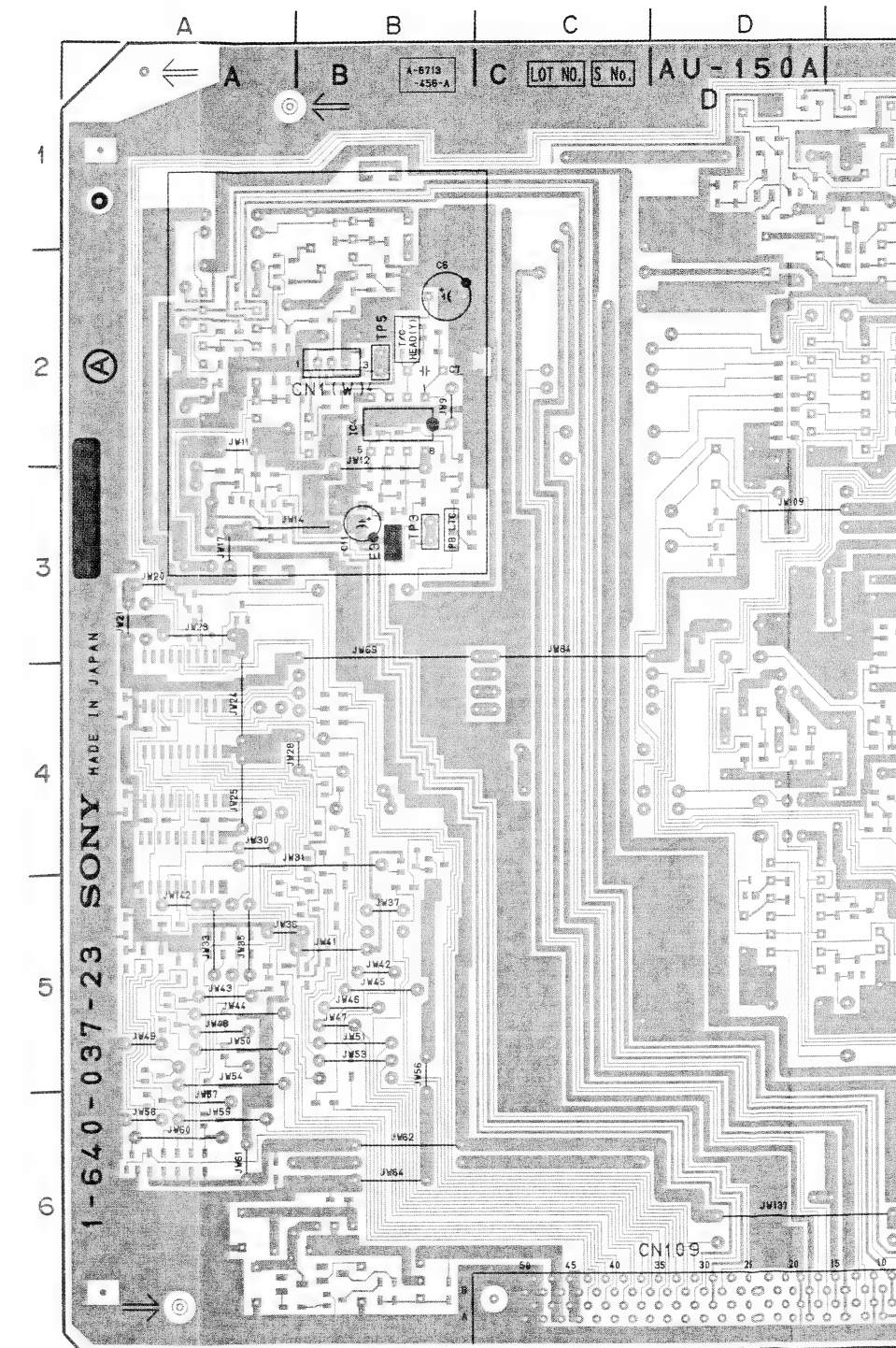


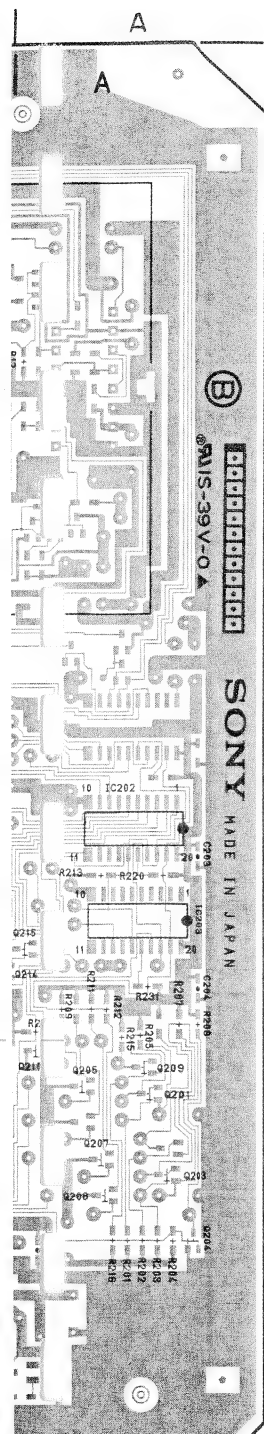
AU-149AP 1-640-036-21 A SIDE

AU-150A ; AUDIO MODE CONTROL, LTC PB

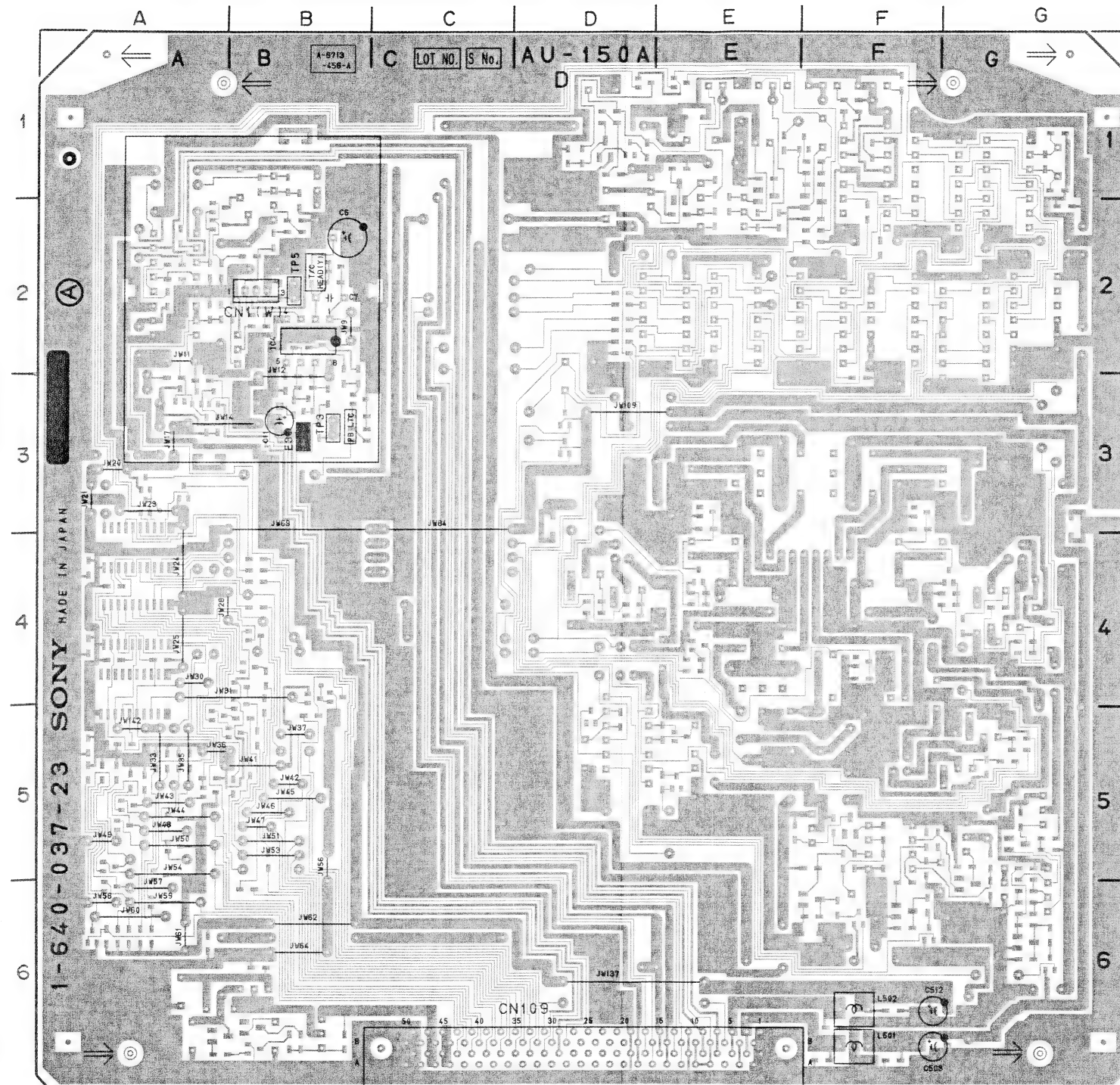


AU-150A 1-640-037-23 B SIDE





A 1-640-037-23 B SIDE



AU-150A 1-640-037-23 A SIDE

AU-150A (1-640-037-23)

CN 1	A-2
CN 109	D-6
*D 2	B-2
*D 3	B-3
E 3	B-3
IC 4	B-2
*IC 202	A-4
*IC 203	A-4
L 501	F-6
L 502	F-6
*Q 201	A-5
*Q 203	A-6
*Q 204	A-6
*Q 205	A-5
*Q 207	A-5
*Q 208	A-6
*Q 209	A-5
*Q 210	A-5
*Q 214	A-5
*Q 215	A-4
*Q 216	B-4
*Q 217	B-4
*Q 218	B-4
*Q 221	B-4
*Q 222	B-4
TP 3	B-3

* : B SIDE

Serial No. (EK); 11151 to 14585
Serial No. (UC); 10001 to 10010

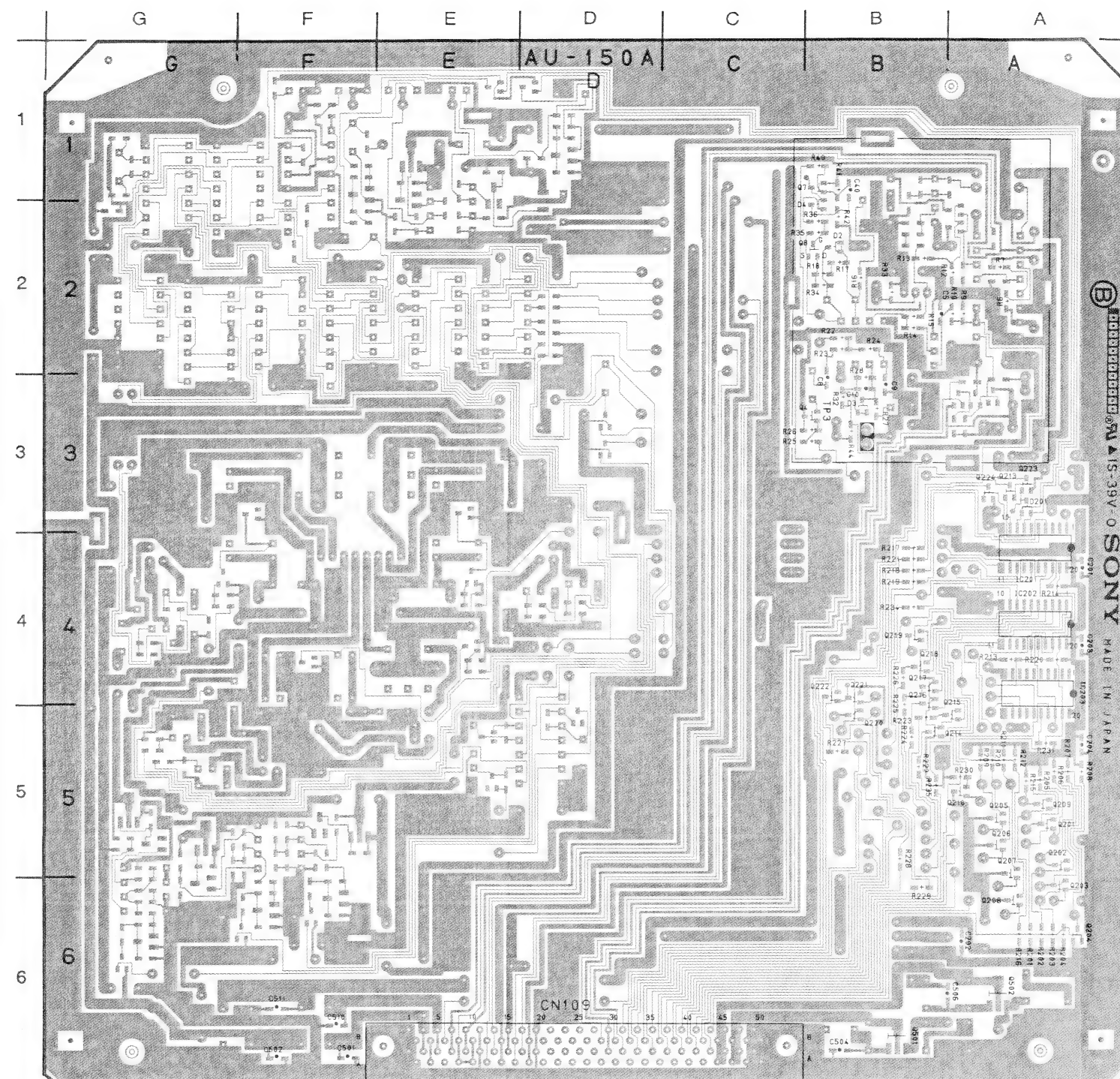
AU-150A AU-150A

AU-150A ; AUDIO MODE CONTROL, LTC PB

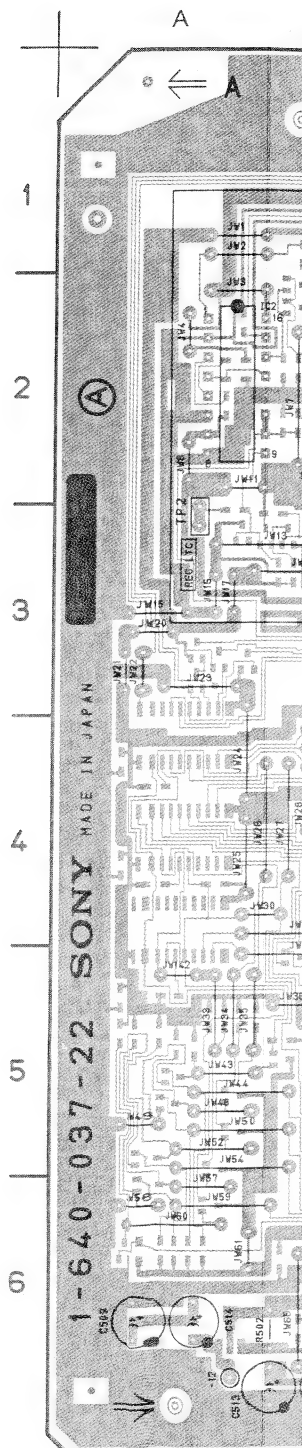
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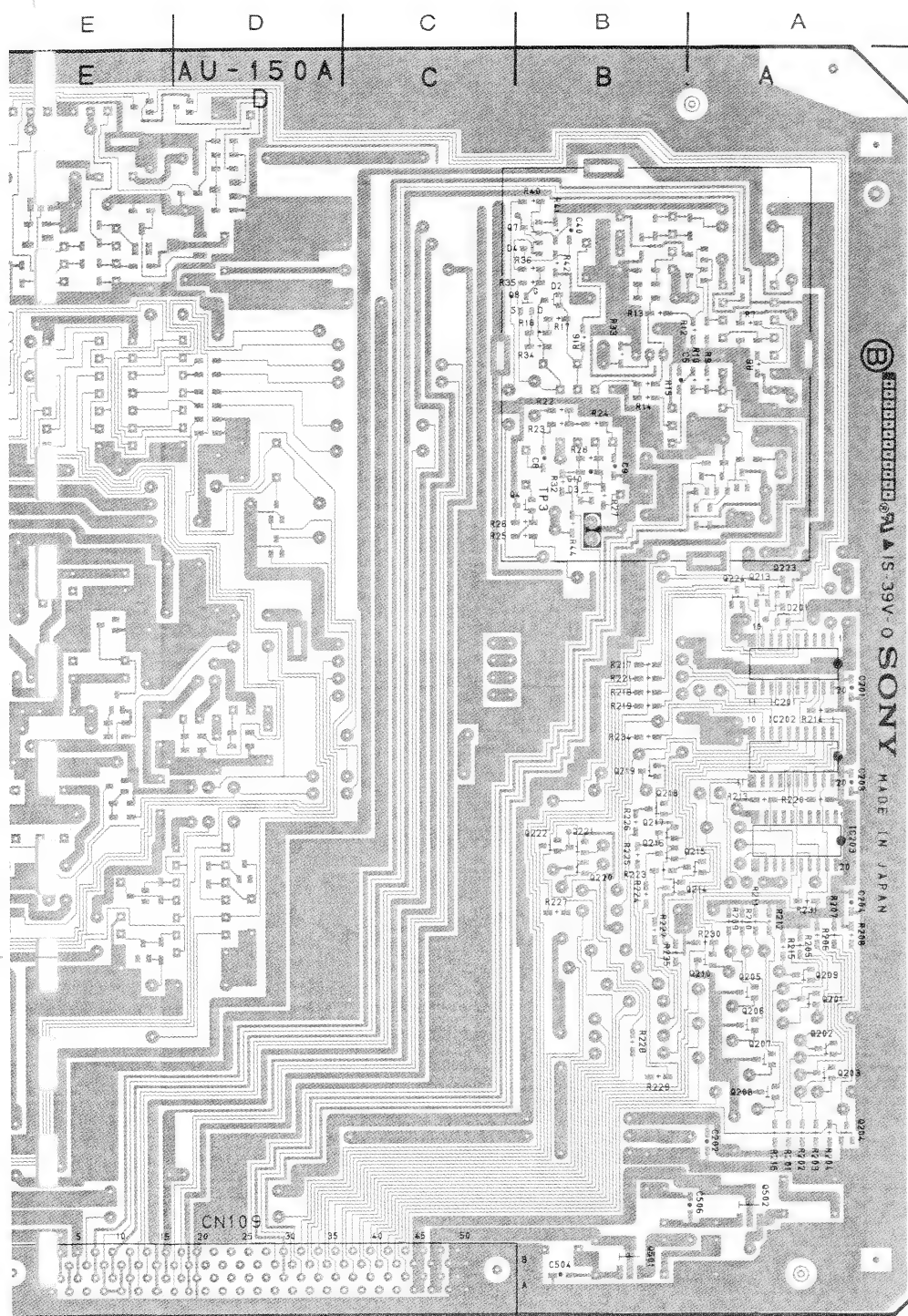
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CN 109	D-7
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*D 3	B-3
*D 4	B-2
*D 201	A-3
E 3	B-3
IC 2	A-2
IC 3	B-1
IC 4	B-2
*IC 201	A-5
*IC 202	A-5
*IC 203	A-5
L 1	B-3
L 501	F-7
L 502	F-7
Q 3	B-2
*Q 4	B-3
*Q 7	B-1
*Q 8	B-2
*Q 201	A-5
*Q 202	A-5
*Q 203	A-6
*Q 204	A-6
*Q 205	A-5
*Q 206	A-5
*Q 207	A-5
*Q 208	A-7
*Q 209	A-5
*Q 210	A-5
*Q 213	A-3
*Q 214	B-5
*Q 215	A-5
*Q 216	B-4
*Q 217	B-4
*Q 218	B-4
*Q 219	B-4
*Q 220	B-5
*Q 221	B-4
*Q 222	B-4
*Q 223	A-3
*Q 224	A-3
*Q 501	B-6
*Q 502	A-5
TP 2	A-3
TP 3	B-3
TP 5	B-2

* : B SIDE

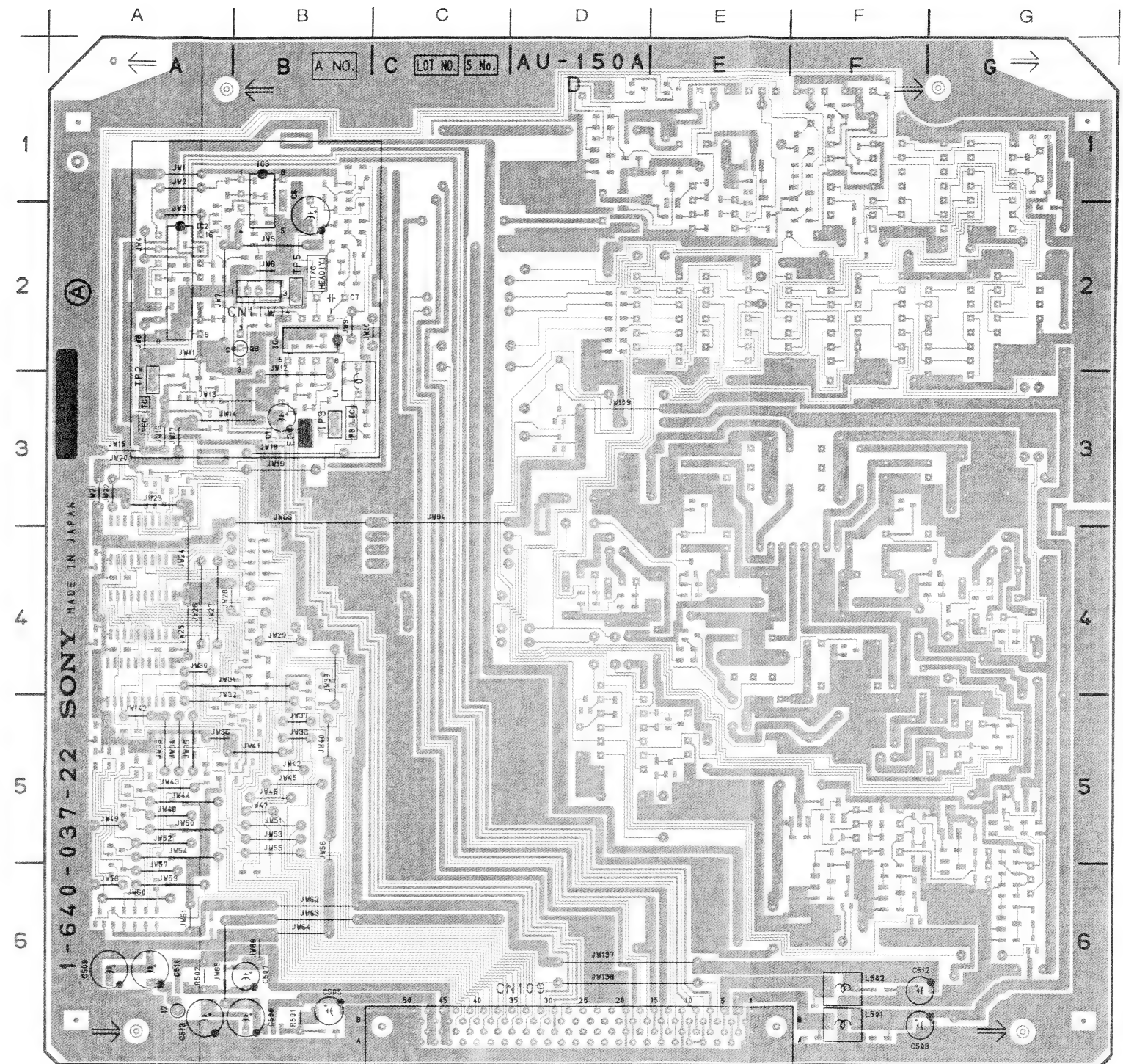


AU-150A 1-640-037-22 B SIDE





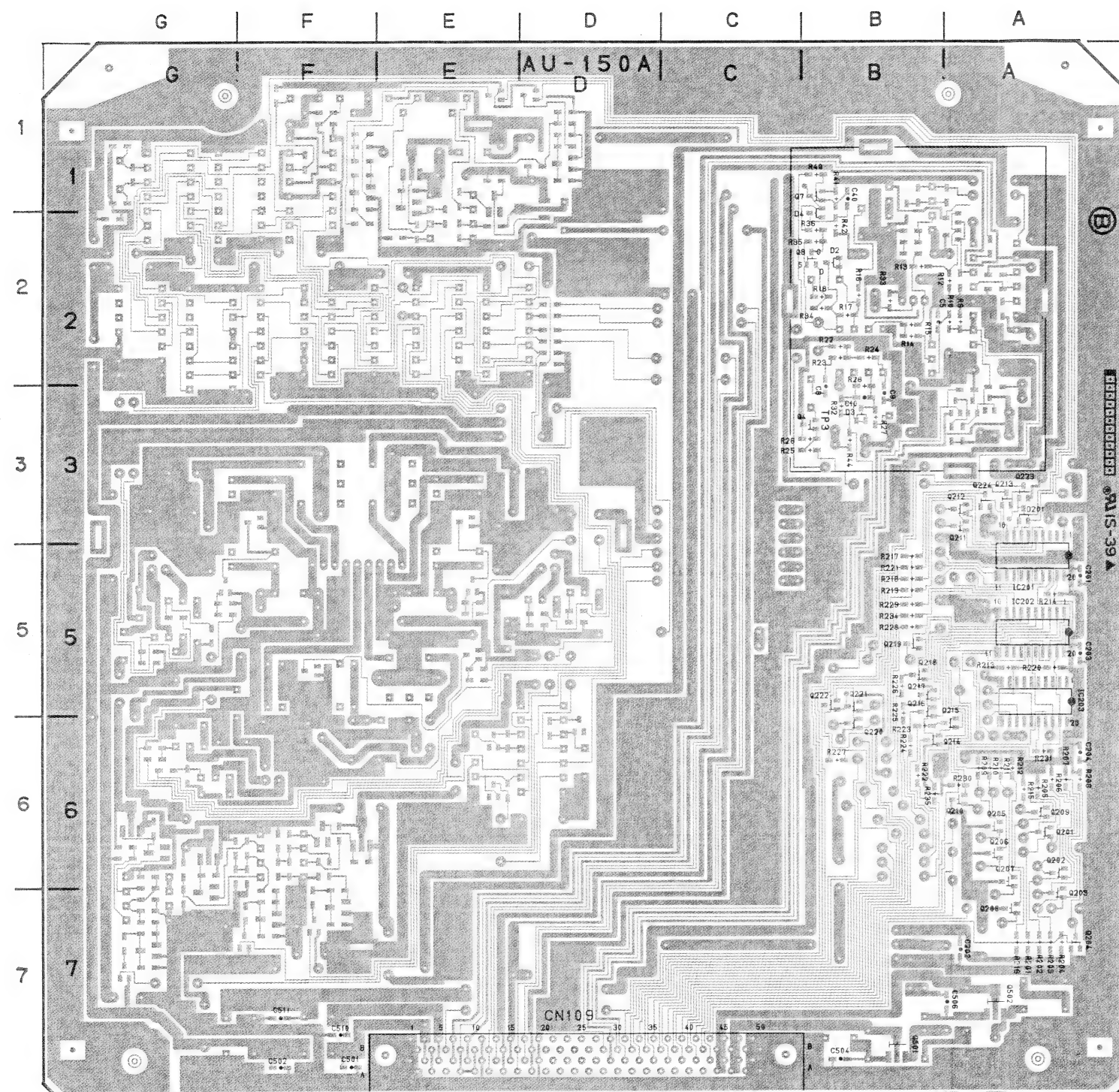
AU-150A 1-640-037-22 B SIDE



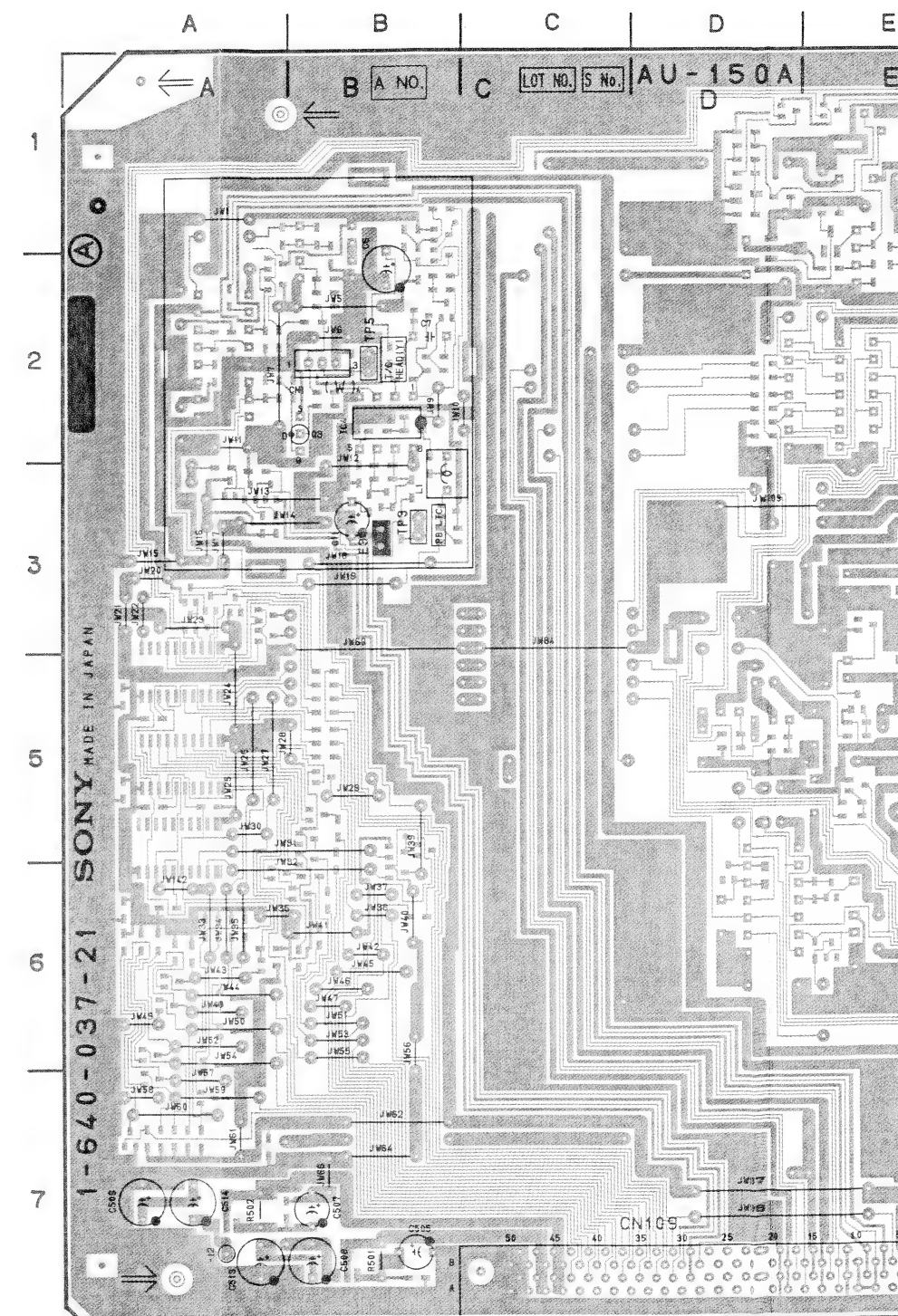
AU-150A 1-640-037-22 A SIDE

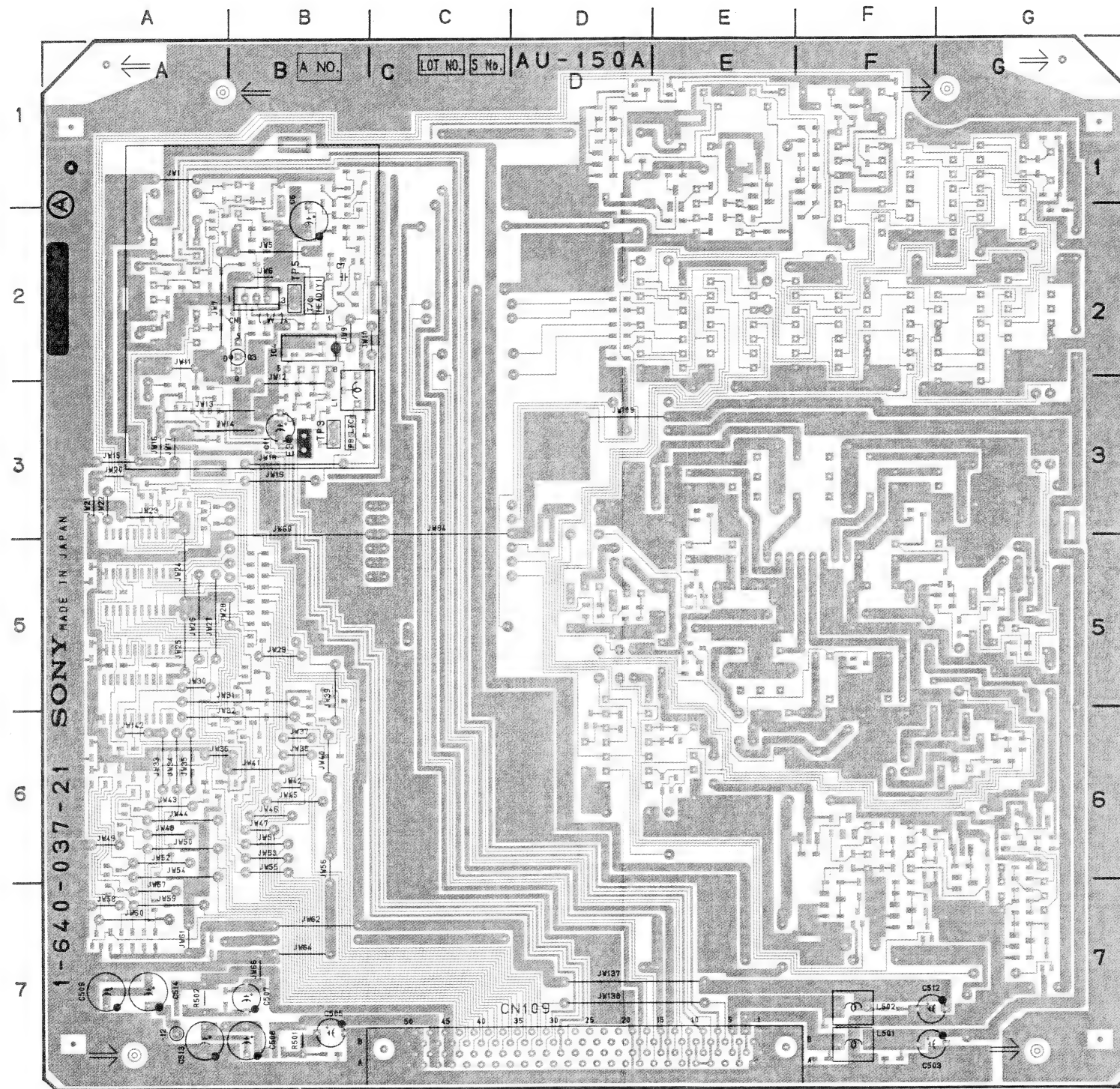
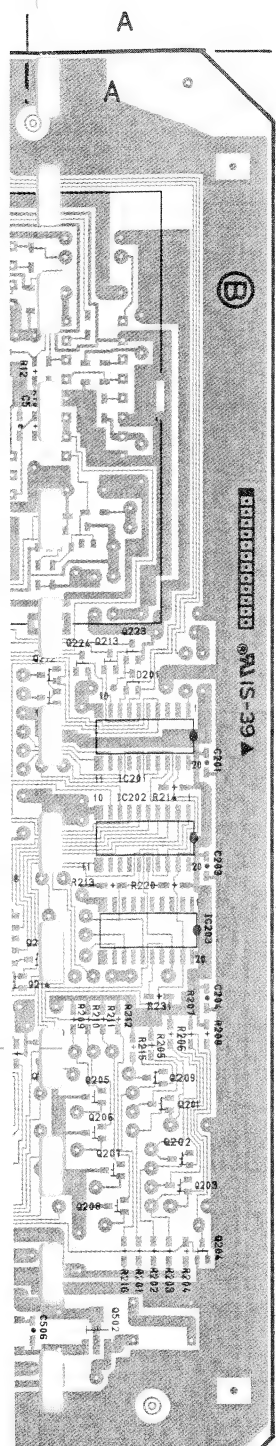
Serial No.(EK);10001 to 11150

AU-150A ; AUDIO MODE CONTROL, LTC PB



AU-150A 1-640-037-21 B SIDE





AU-150A (1-640-037-21)

CN 1	B-2
CN 109	D-7
*D 2	B-2
*D 3	B-3
*D 4	B-2
*D 201	A-3
E 3	B-3
IC 4	B-2
*IC 201	A-5
*IC 202	A-5
*IC 203	A-5
L 1	B-3
L 501	F-7
L 502	F-7
Q 3	B-2
*Q 4	B-3
*Q 7	B-1
*Q 8	B-2
*Q 201	A-6
*Q 202	A-6
*Q 203	A-7
*Q 204	A-7
*Q 205	A-6
*Q 206	A-6
*Q 207	A-6
*Q 208	A-7
*Q 209	A-6
*Q 210	A-6
*Q 211	A-3
*Q 212	A-3
*Q 213	A-3
*Q 214	B-6
*Q 215	A-6
*Q 216	B-5
*Q 217	B-5
*Q 218	B-5
*Q 219	B-5
*Q 220	B-6
*Q 221	B-5
*Q 222	B-5
*Q 223	A-3
*Q 224	A-3
*Q 501	B-7
*Q 502	A-7
TP 3	B-3
TP 5	B-2

* : B SIDE

AU-150A 1-640-037-21 A SIDE

Serial No. (EK); 14586 and higher
Serial No. (UC); 10011 and higher

CP-167A CP-167A

Serial No. (EK); 13916 to 14585
Serial No. (UC); 10001 to 10010

CP-167A; AUDIO OUTPUT CONNECTOR, LINE OUT DRIVER

CP-167A (1-640-046-23)

CN 601 F-1
CN 602 F-1
CN 603 F-1
CN 607 D-3
CN 608 D-2
CN 609 D-1

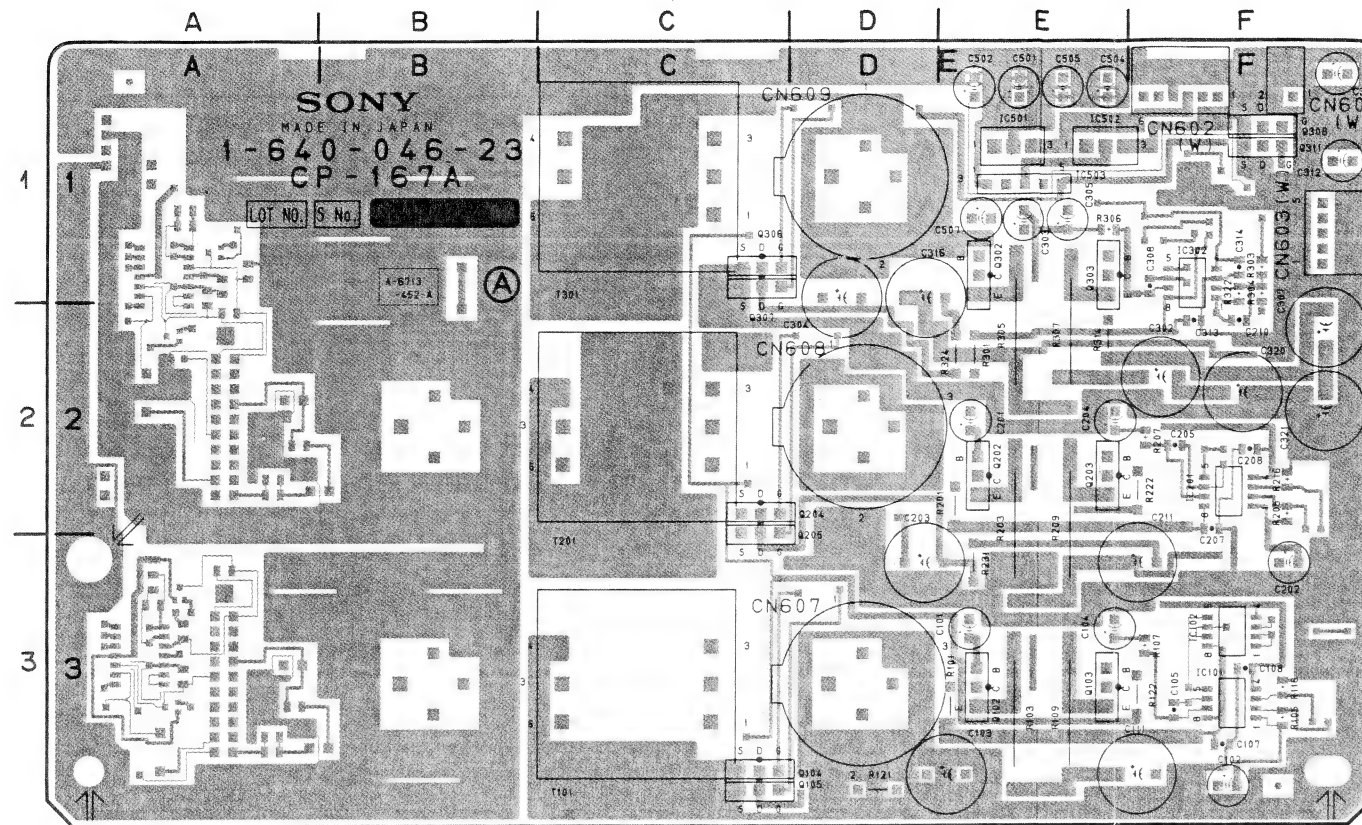
*D 101 E-3
*D 102 D-3
*D 103 D-2
*D 201 E-2
*D 301 E-1
*D 302 D-1
*D 303 F-1
*D 304 F-1
*D 305 E-1

IC 101 F-3
IC 102 F-3
IC 201 F-3
IC 302 F-1
IC 501 E-1
IC 502 E-1
IC 503 E-1

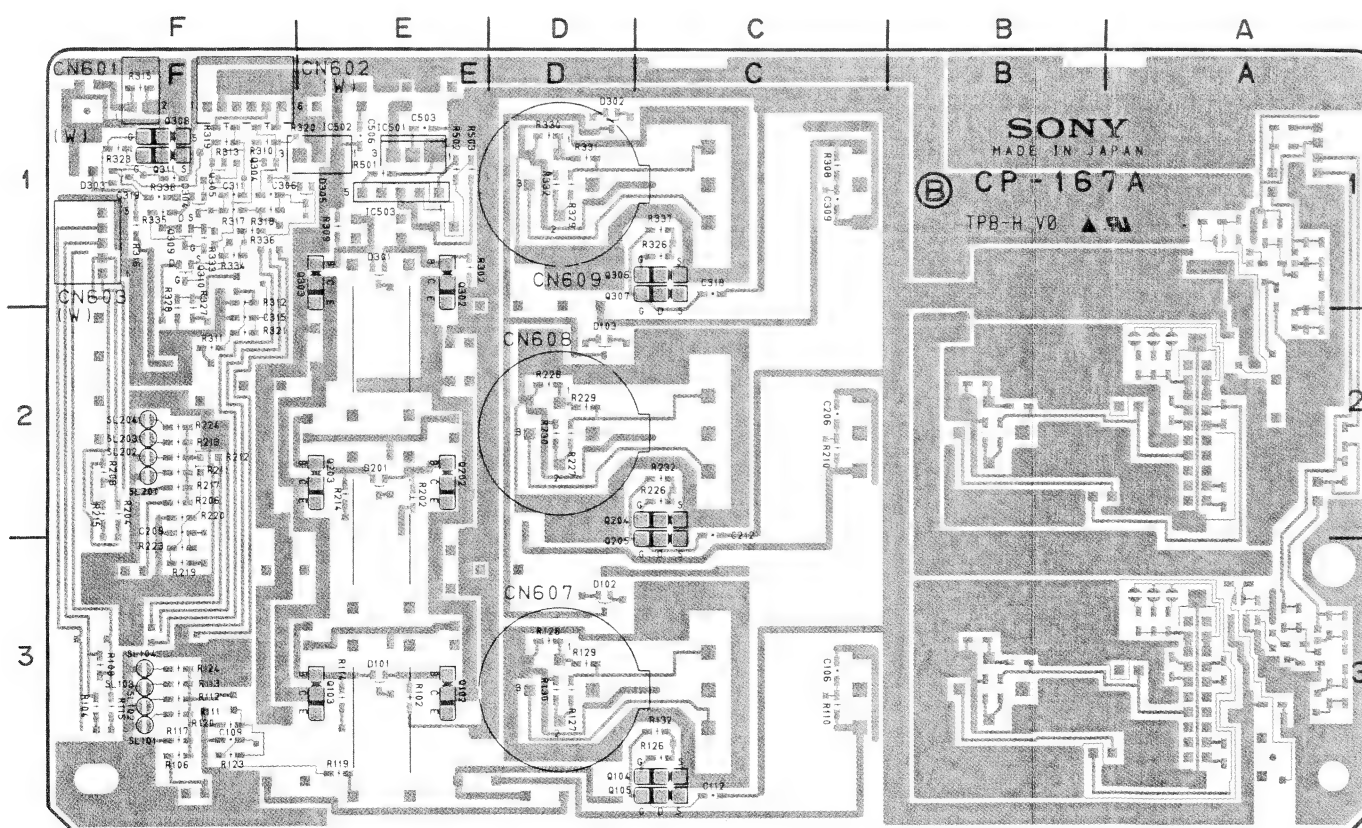
Q 102 E-3
Q 103 E-3
Q 104 D-3
Q 105 D-3
Q 202 E-2
Q 203 E-2
Q 204 D-2
Q 205 D-3
Q 302 E-1
Q 303 E-1
*Q 304 F-1
*Q 305 F-1
Q 306 C-1
Q 307 C-2
Q 308 F-1
*Q 309 F-1
*Q 310 F-1
Q 311 F-1

T 101 C-3
T 201 C-3
T 301 C-1

*: B SIDE



CP-167A 1-640-046-23 A SIDE



CP-167A 1-640-046-23 B SIDE

CP-167A; AUDIO OUTPUT CONNECTOR, LINE OUT DRIVER

CP-167A (1-640-046-22)

CN 601 F-1
CN 602 F-1
CN 603 F-1
CN 607 D-3
CN 608 D-2
CN 609 D-1

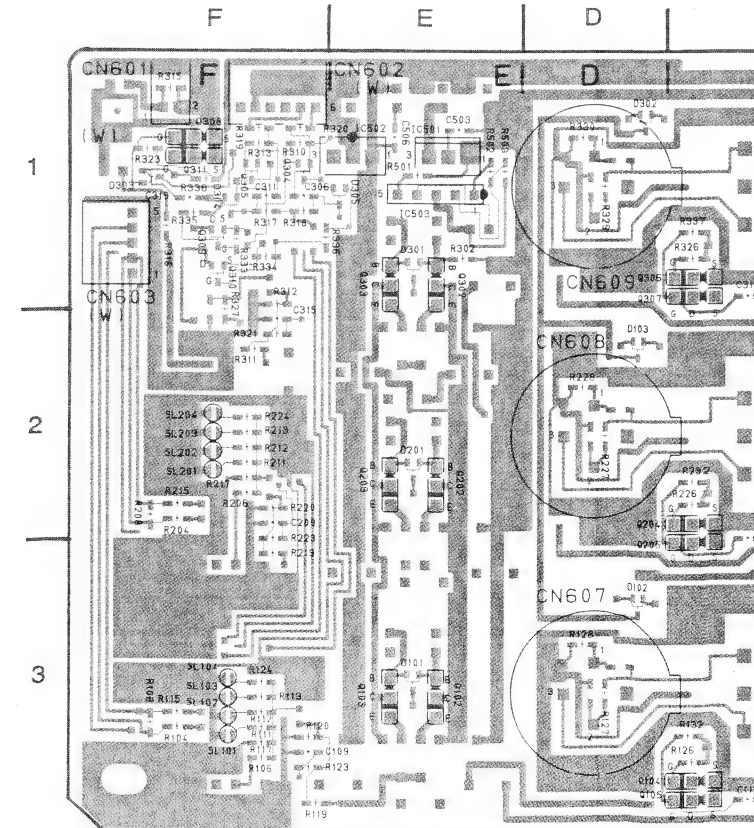
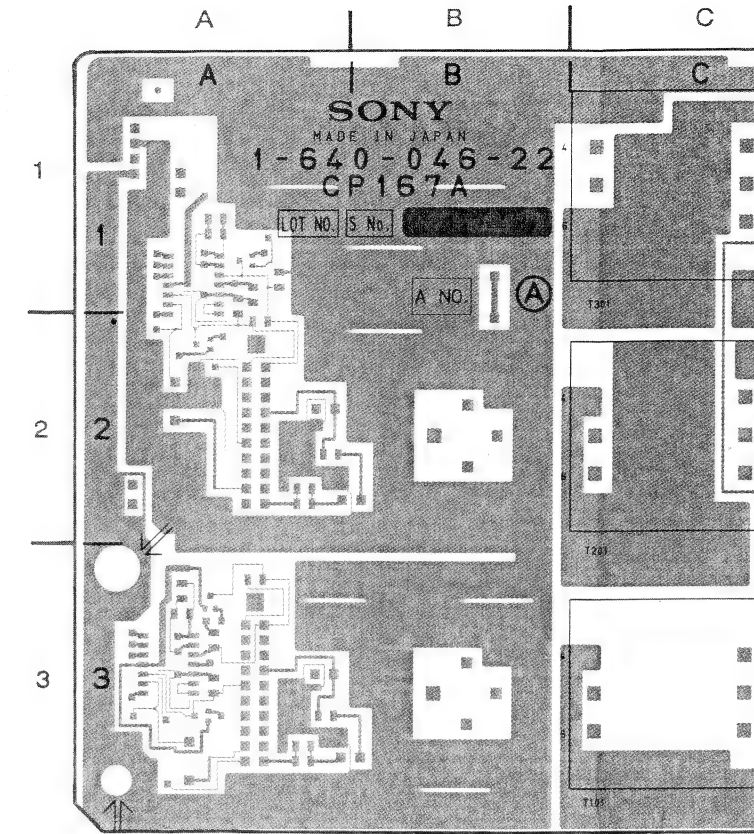
*D 101 E-3
*D 102 D-3
*D 103 D-2
*D 201 E-2
*D 301 E-1
*D 302 D-1
*D 303 F-1
*D 304 F-1
*D 305 E-1

IC 101 F-3
IC 102 F-3
IC 201 F-2
IC 302 F-1
IC 501 E-1
IC 502 E-1
IC 503 E-1

Q 102 E-3
Q 103 E-3
Q 104 D-3
Q 105 D-3
Q 202 E-2
Q 203 E-2
Q 204 D-2
Q 205 D-2
Q 302 E-1
Q 303 E-1
*Q 304 F-1
*Q 305 F-1
Q 306 D-1
Q 307 D-1
Q 308 F-1
*Q 309 F-1
*Q 310 F-1
Q 311 F-1

T 101 C-3
T 201 C-3
T 301 C-1

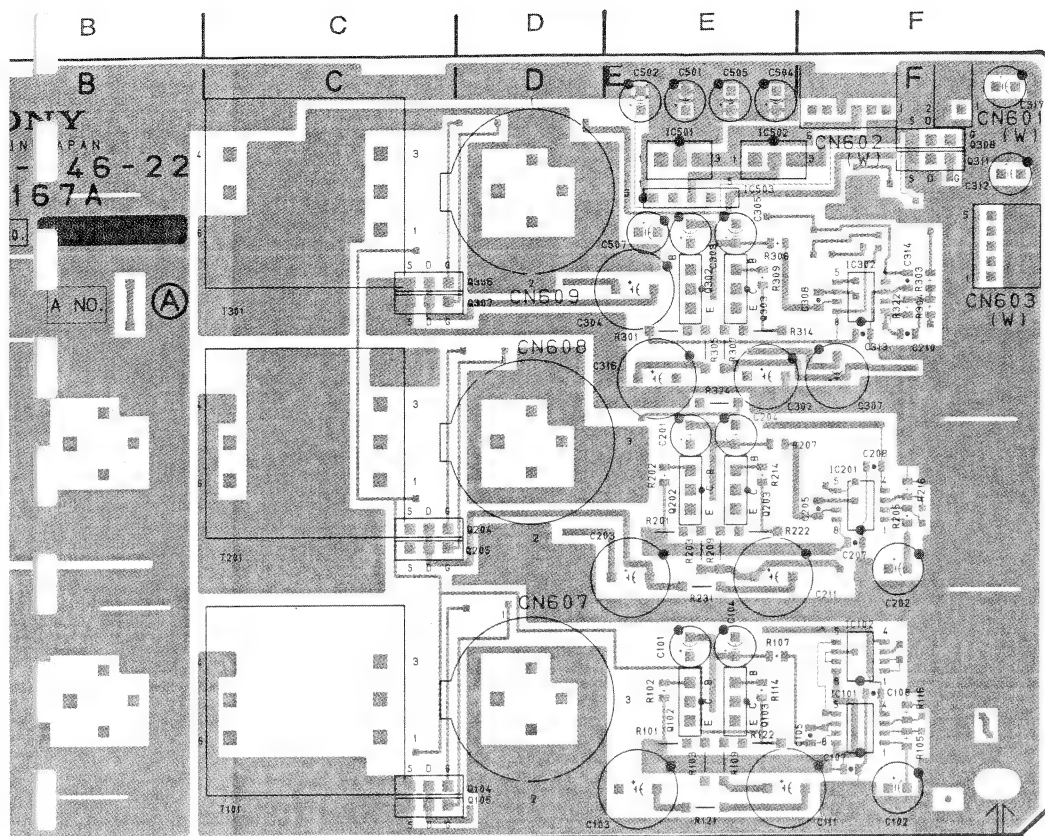
*: B SIDE



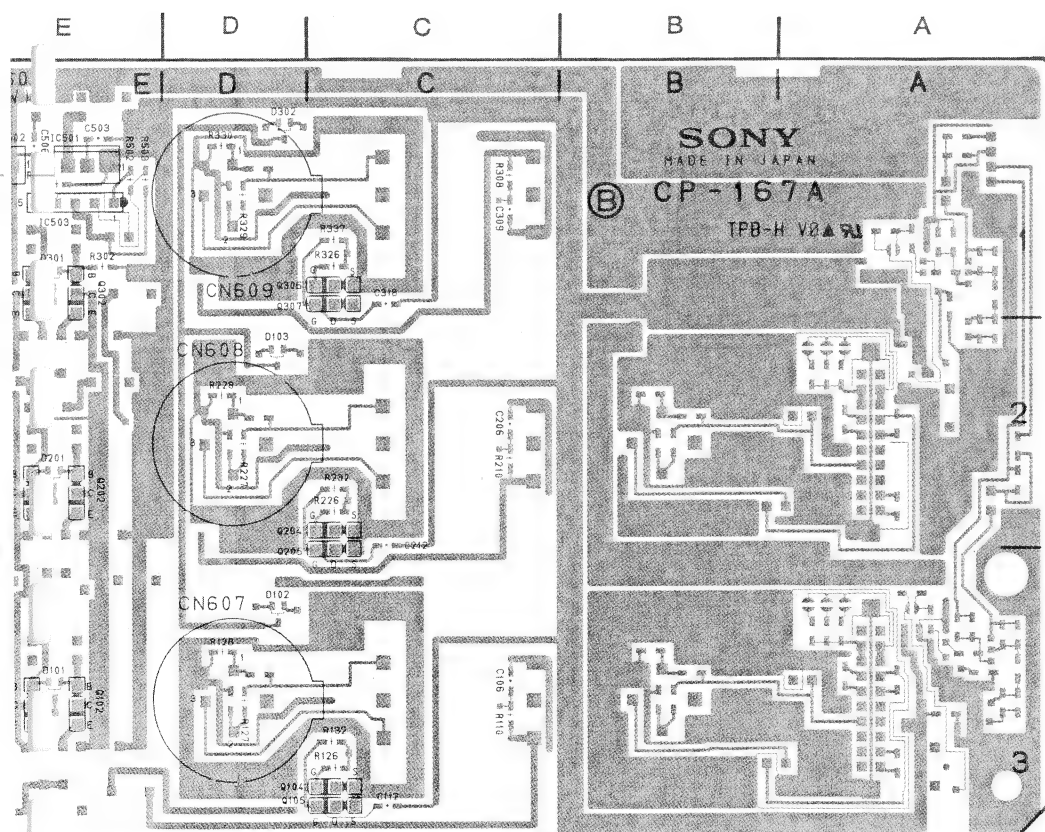
Serial No. (EK) ; 10001 to 13915

CP-167A ; AUDIO OUTPUT CONNECTOR, LINE OUT DRIVER

CP-167A (1-640-046-21)



CP-167A 1-640-046-22 A SIDE



CP-167A 1-640-046-22 B SIDE

CN 601	F-1
CN 602	F-1
CN 603	F-1
CN 607	D-3
CN 608	D-2
CN 609	D-1

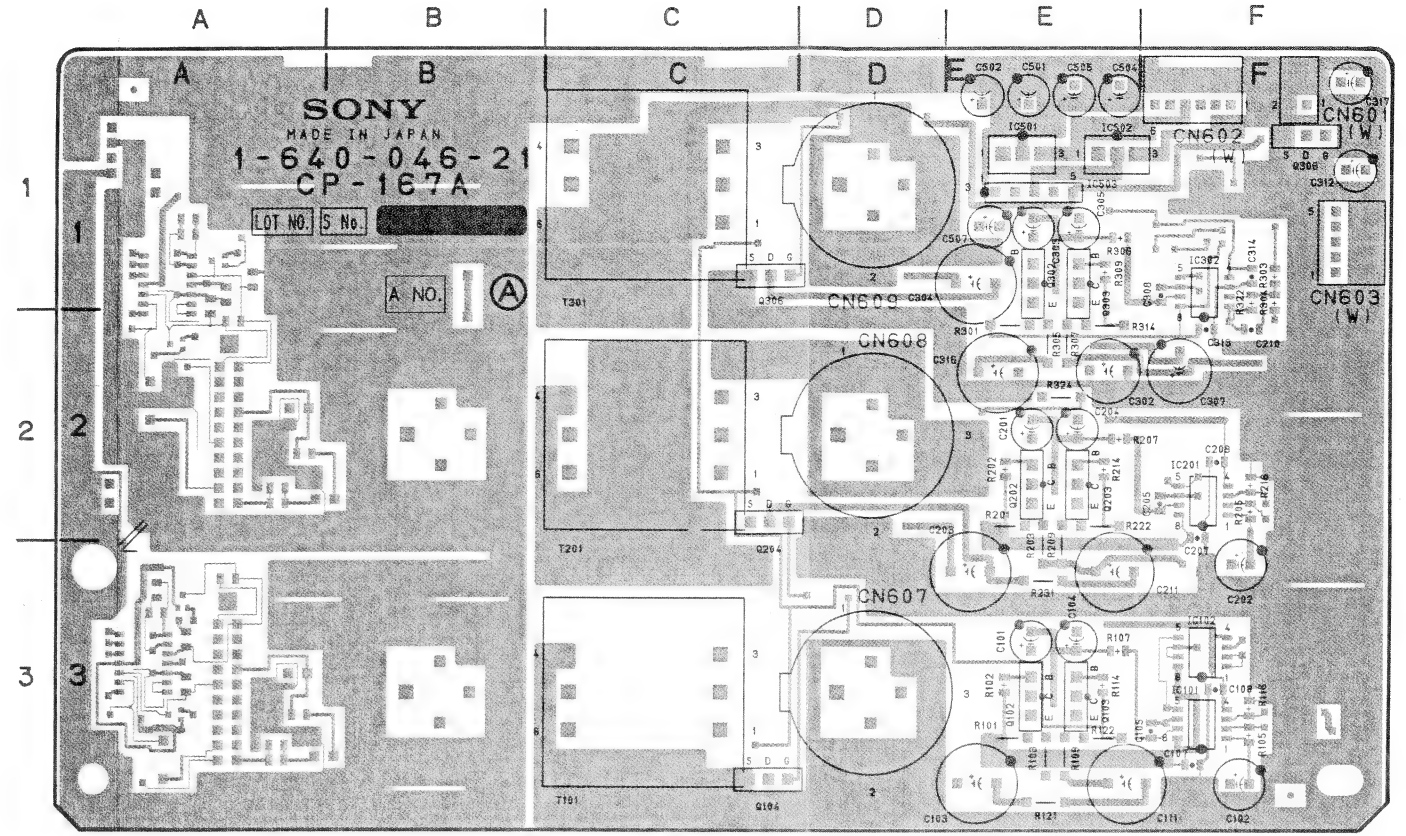
*D 101	E-3
*D 102	D-3
*D 201	E-2
*D 301	E-1
*D 302	D-1
*D 303	F-1
*D 304	F-1
*D 305	E-1

IC 101	F-3
IC 102	F-3
IC 201	F-2
IC 302	F-1
IC 501	E-1
IC 502	E-1
IC 503	E-1

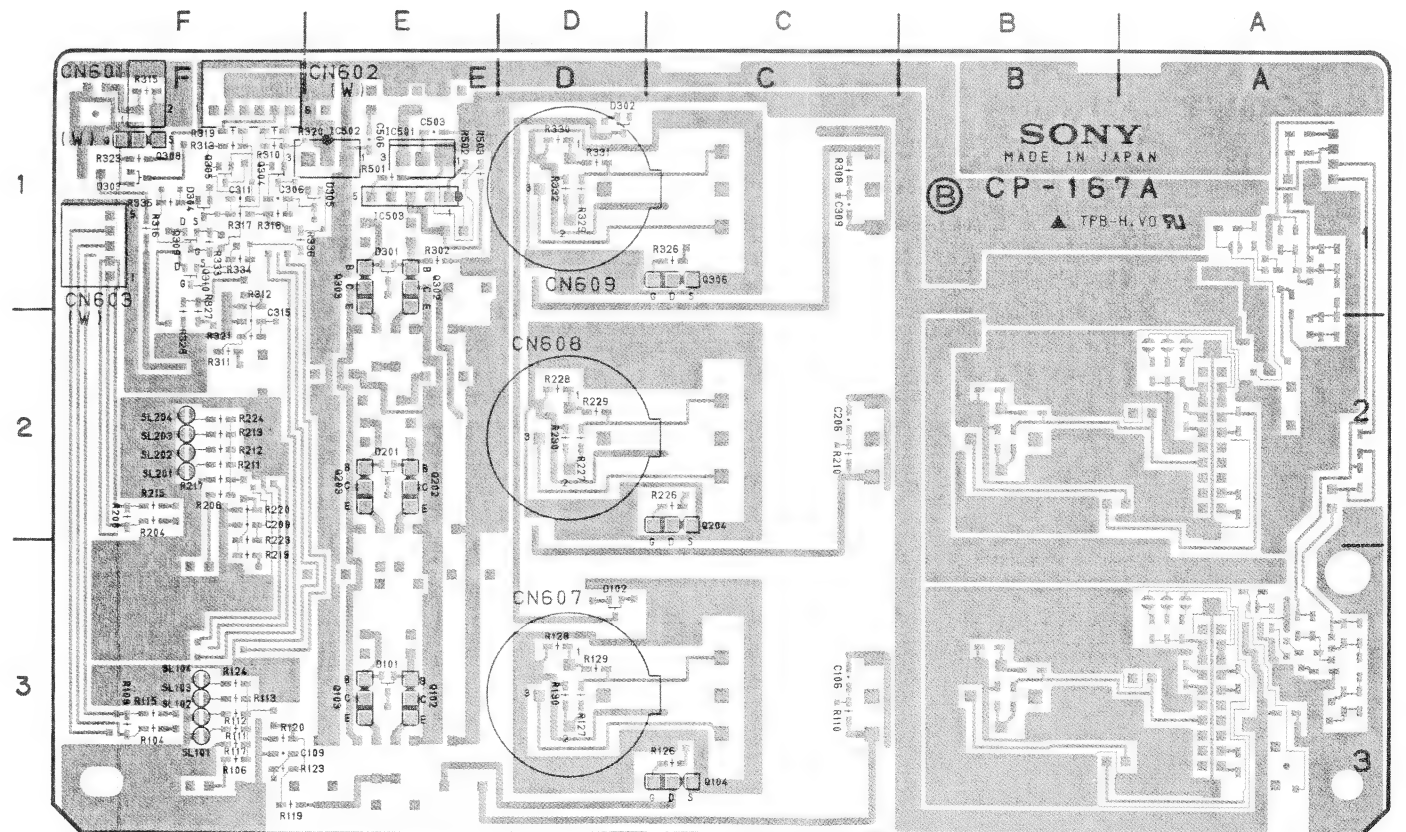
Q 102	E-3
Q 103	E-3
Q 104	C-3
Q 202	E-2
Q 203	E-2
Q 204	C-3
Q 302	E-1
Q 303	E-2
* Q 304	F-1
* Q 305	F-1
Q 306	C-1
Q 308	F-1
* Q 309	F-1
* Q 310	F-1

T 101	C-3
T 201	C-2
T 301	C-1

* : B SIDE



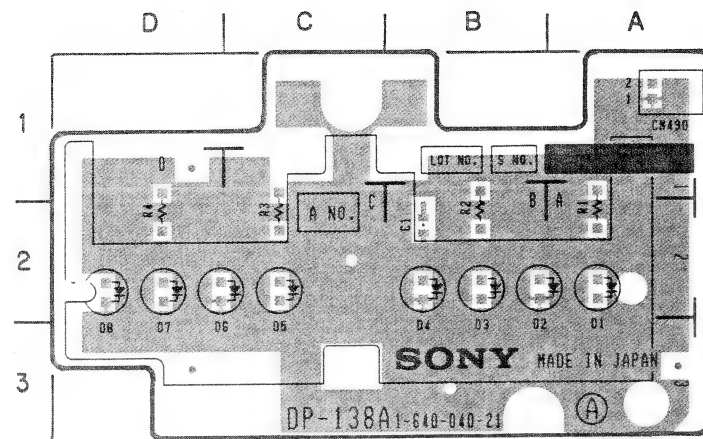
CP-167A 1-640-046-21 A SIDE



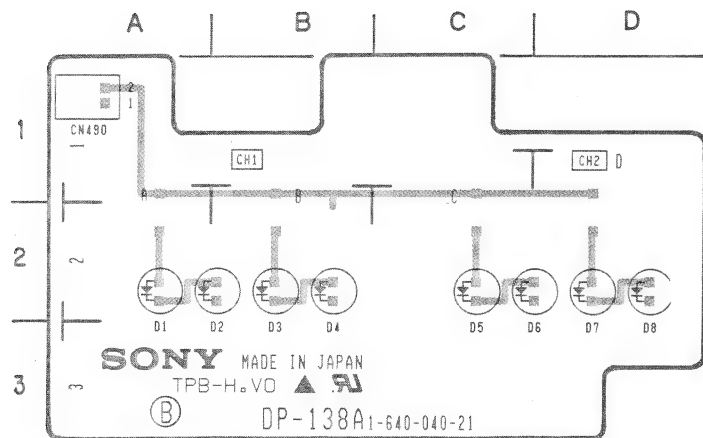
CP-167A 1-640-046-21 B SIDE 15-11

DP-138A ; AUDIO LEVEL METER BACK LIGHT
VR-116A ; AUDIO PB LEVEL CONTROL, HEADPHONE VOLUME CONTROL
MA-44A ; AUDIO METER DRIVER, HEADPHONE AMPLIFIER

Serial No.(EK);10651 and higher
Serial No.(UC);10001 and higher



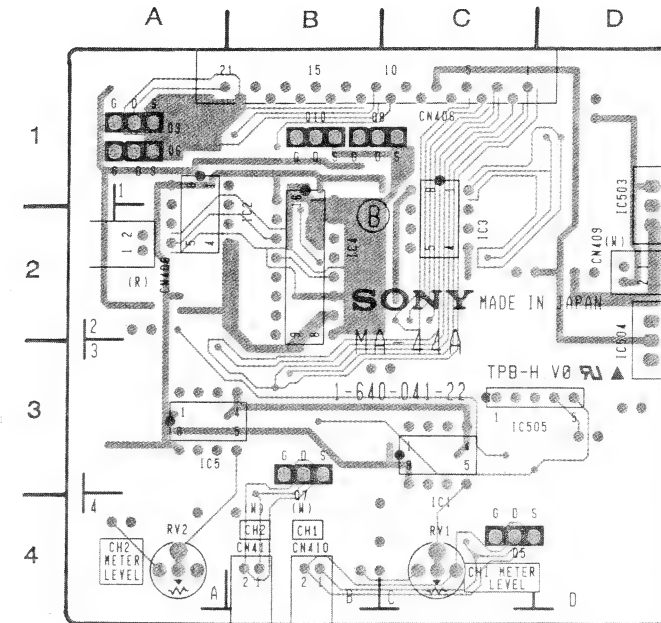
DP-138A 1-640-040-21 A SIDE



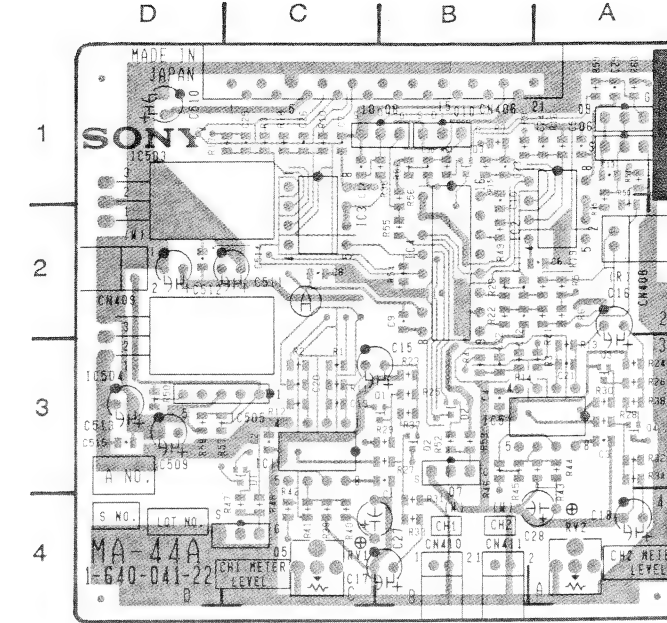
DP-138A 1-640-040-21 B SIDE

DP-138A (1-640-040-21)

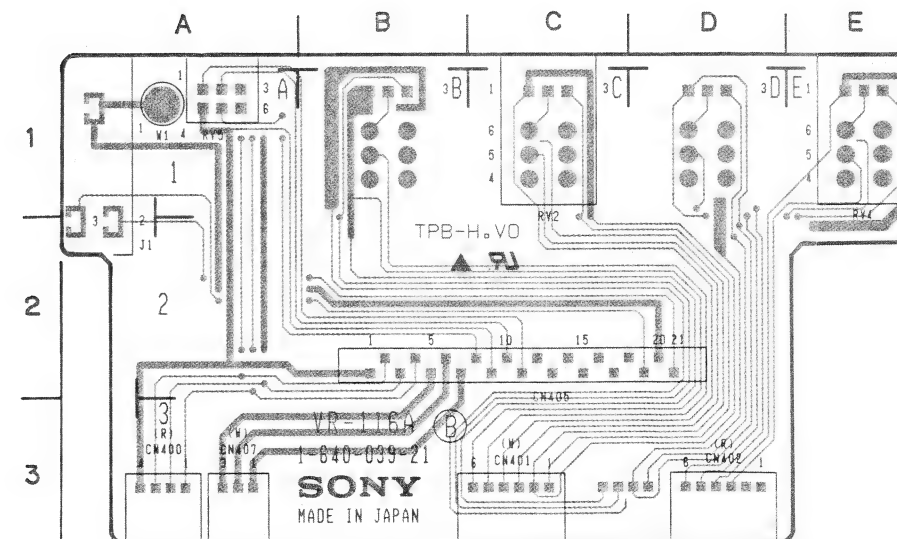
CN490	A-1
D1	A-2
D2	B-2
D3	B-2
D4	B-2
D5	C-2
D6	D-2
D7	D-2
D8	D-2



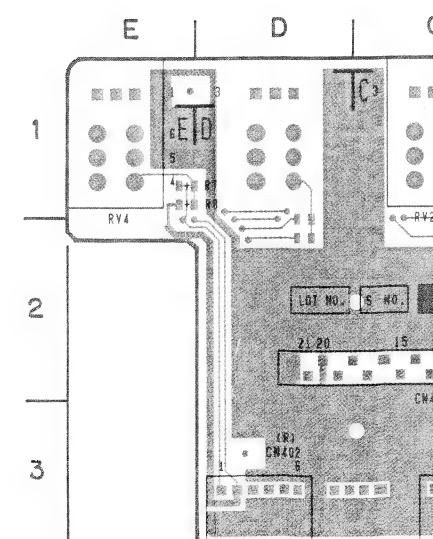
MA-44A 1-640-041-22 B SIDE



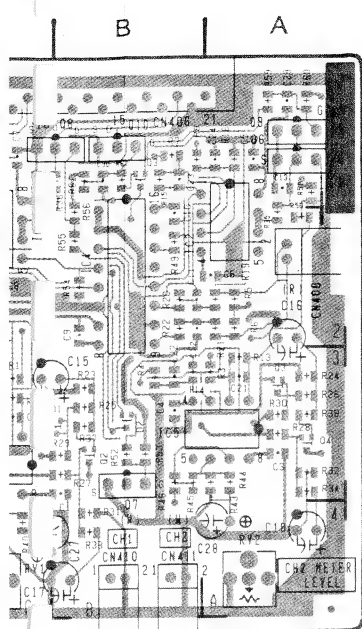
MA-44A 1-640-041-22 A SIDE



VR-116A 1-640-039-21 B SIDE



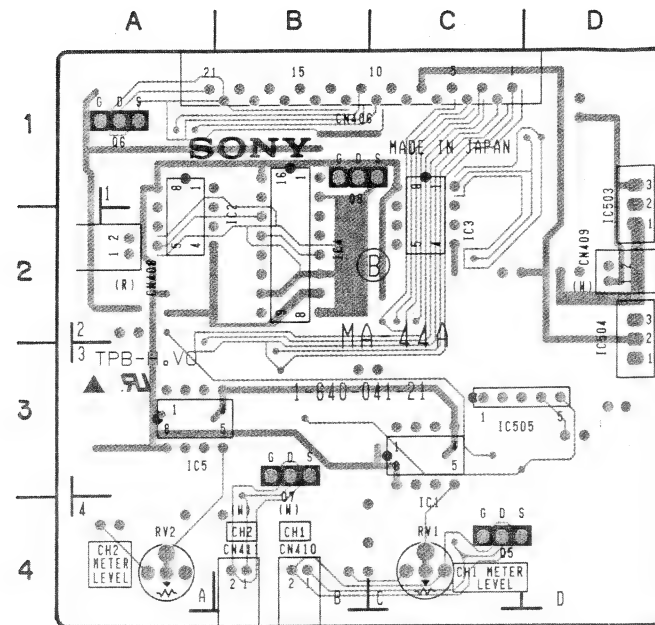
Serial No.(EK):10001 to 10650



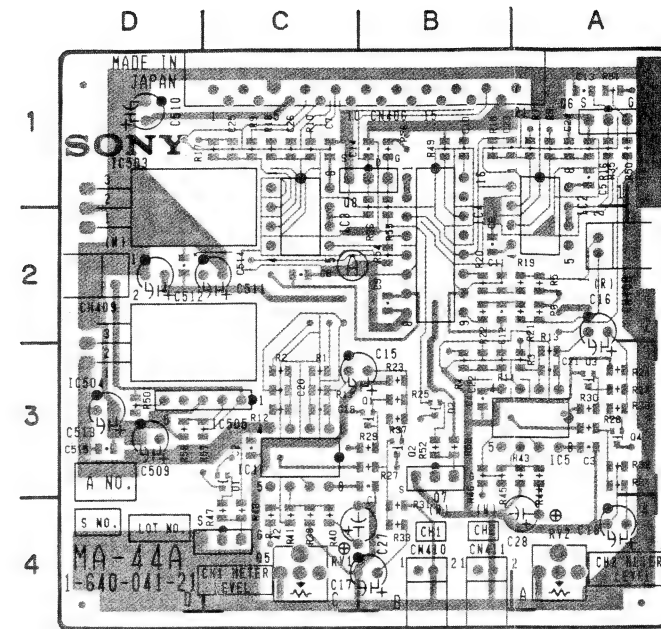
MA-44A 1-640-041-22 A SIDE

MA-44A (1-640-041-22)

CN 406	B-1
CN 408	A-2
CN 409	D-2
CN 410	B-4
CN 411	B-4
D 1	C-3
D 2	B-3
D 3	B-1
IC 1	C-3
IC 2	A-2
IC 3	C-2
IC 4	B-2
IC 5	A-3
IC 503	D-1
IC 504	D-2
IC 505	C-3
Q 1	B-3
Q 2	B-3
Q 3	A-3
Q 4	A-3
Q 5	C-4
Q 6	A-1
Q 7	B-3
Q 8	B-1
Q 9	A-1
Q 10	B-1
RV 1	C-4
RV 2	A-4



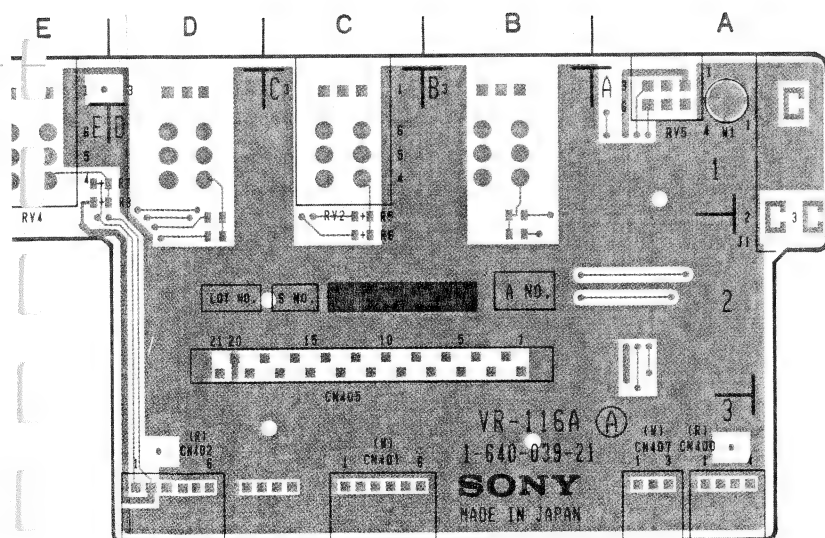
MA-44A 1-640-041-21 B SIDE



MA-44A 1-640-041-21 A SIDE

MA-44A (1-640-041-21)

CN 406	B-1
CN 408	A-2
CN 409	D-2
CN 410	B-4
CN 411	B-4
D 1	C-3
D 2	B-3
IC 1	C-3
IC 2	A-3
IC 3	C-2
IC 4	B-2
IC 5	A-3
IC 503	D-1
IC 504	D-2
IC 505	C-3
Q 1	B-3
Q 2	B-3
Q 3	A-3
Q 4	A-3
Q 5	C-4
Q 6	A-1
Q 7	B-3
Q 8	B-1
RV 1	C-4
RV 2	A-4



VR-116A 1-640-039-21 A SIDE

VR-116A (1-640-039-21)

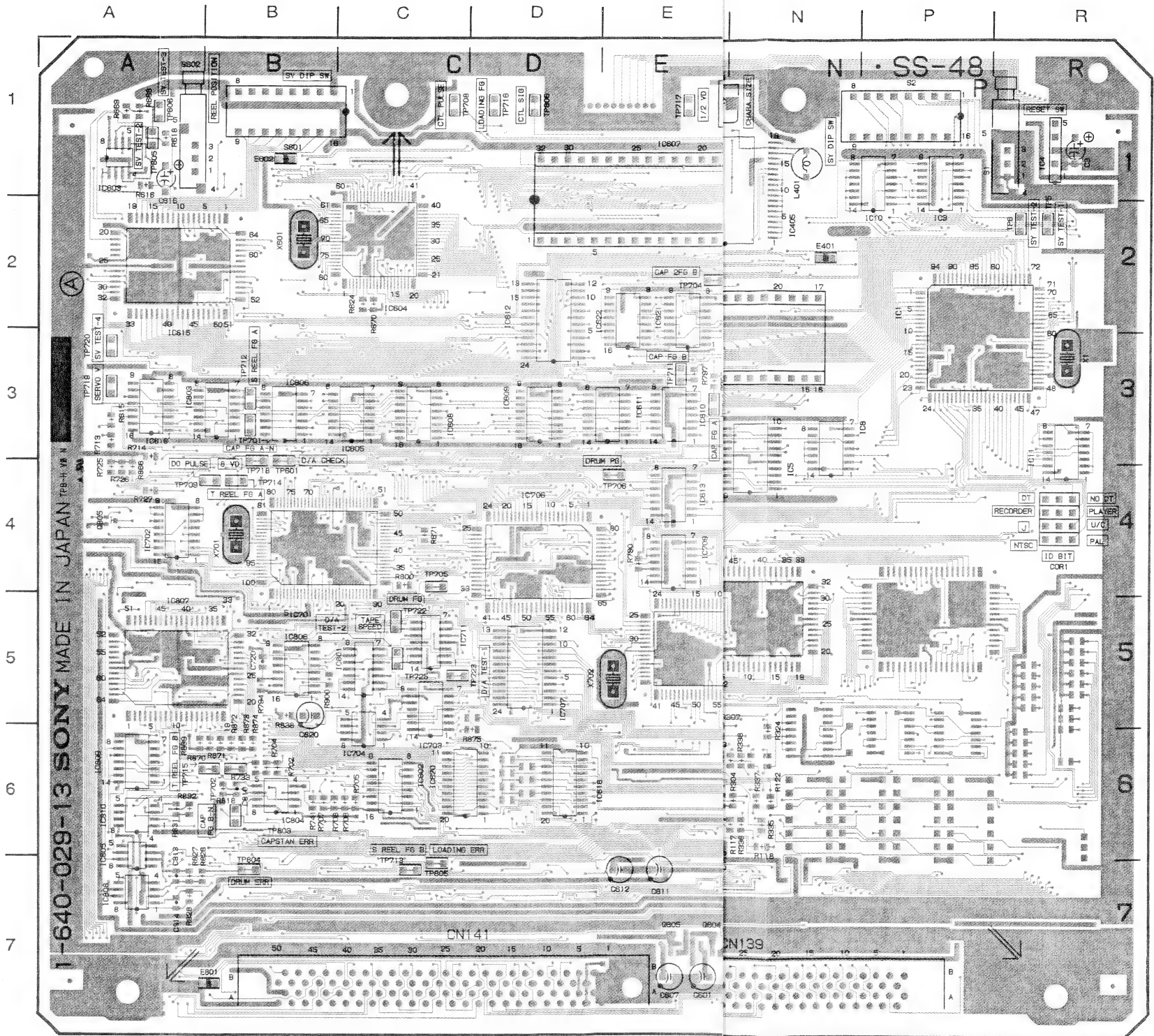
CN 400	A-1
CN 401	C-3
CN 402	D-3
CN 403	C-3
CN 405	C-2
CN 407	A-2
RV 1	B-1
RV 2	C-2
RV 3	D-2
RV 4	E-2
RV 5	A-1

SS-48P ; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER,
CHARACTER GENERATOR

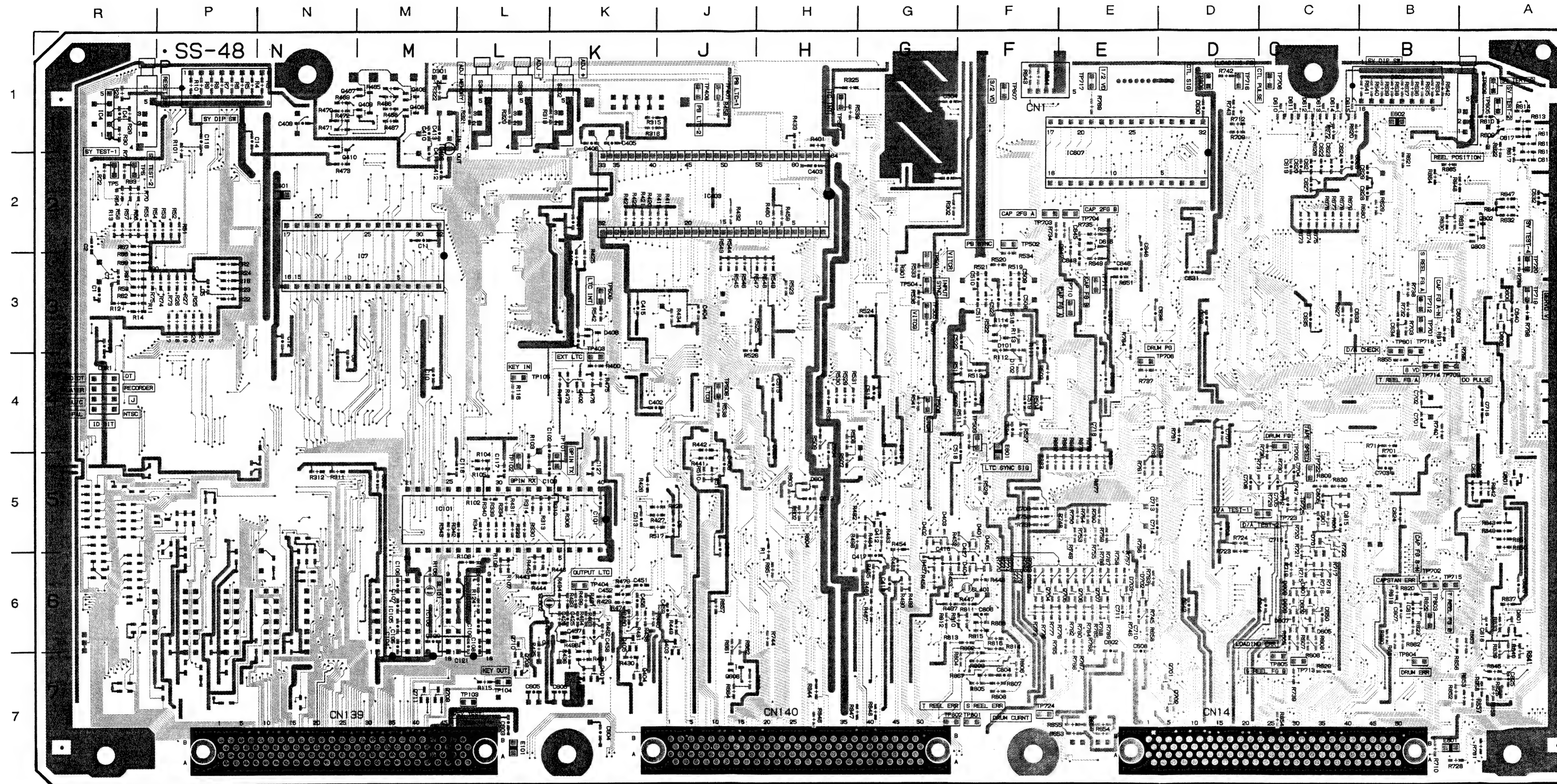
SS-48P (1-640-029-13)

CN 1	F-1	IC 402	J-4	*Q 404	K-7
CN 139	N-7	IC 403	J-2	*Q 405	K-6
CN 140	H-7	IC 404	J-3	*Q 406	M-1
CN 141	C-7	IC 405	M-1	*Q 407	M-1
		IC 406	L-3	*Q 408	M-1
COP 1	R-4	IC 407	J-5	*Q 409	M-1
COP 2	R-4	IC 408	M-1	*Q 410	N-1
COP 3	R-4	IC 410	G-6	*Q 411	K-6
COP 4	R-4	IC 411	K-6	*Q 412	G-5
		IC 412	K-6	Q 604	E-7
COR 1	R-4	IC 413	G-6	Q 605	E-7
		IC 414	K-3	*Q 606	J-7
CV 401	M-1	IC 415	J-6	*Q 701	D-7
CV 402	M-1	IC 501	G-3	*Q 702	D-7
		IC 502	G-4	*Q 703	F-6
*D 101	F-3	IC 504	G-4	*Q 704	F-6
*D 102	F-4	IC 505	F-4	*Q 705	E-6
*D 401	F-5	IC 506	H-4	*Q 706	E-6
*D 402	G-5	IC 507	H-4	*Q 707	E-6
*D 403	G-5	IC 508	F-4	*Q 708	L-7
*D 404	F-6	IC 510	F-3	*Q 709	M-7
*D 405	F-6	IC 511	H-3	*Q 710	L-6
*D 406	K-3	IC 514	F-3	*Q 711	M-7
*D 601	C-6	IC 601	H-5	*Q 801	A-5
*D 602	C-6	IC 602	C-6	*Q 802	A-2
*D 603	C-6	IC 603	A-1	*Q 803	A-2
*D 604	H-5	IC 604	C-2	Q 805	A-4
*D 605	C-6	IC 605	B-4		
*D 606	C-6	IC 606	B-3	S 1	R-1
*D 607	C-6	IC 607	E-2	S 2	P-1
*D 608	A-3	IC 608	C-3	S 302	K-1
*D 609	A-3	IC 609	D-3	S 303	L-1
*D 610	C-1	IC 610	E-3	S 304	L-1
*D 611	C-1	IC 611	E-3	S 601	B-1
*D 612	C-1	IC 612	D-2	S 602	A-1
*D 613	C-1	IC 613	E-4		
*D 614	C-1	IC 615	A-2	TP 6	R-2
*D 615	C-1	IC 616	A-3	TP 401	J-1
*D 616	E-2	IC 618	D-6	TP 408	J-1
*D 701	C-5	IC 619	J-5	TP 708	C-1
*D 702	E-6	IC 620	D-6	TP 717	E-1
*D 703	E-6	IC 621	E-2	TP 801	F-7
*D 801	A-6	IC 622	E-2	TP 802	G-7
		IC 701	B-4	TP 806	D-1
E 401	N-2	IC 702	A-4		
E 601	F-5	IC 703	C-5	X 1	R-3
E 602	B-1	IC 704	C-6	X 101	L-4
		IC 706	D-4	X 401	K-1
IC 1	P-3	IC 707	D-5	X 402	M-1
IC 2	J-5	IC 709	E-4	X 501	F-3
IC 3	P-1	IC 710	E-5	X 601	B-2
IC 4	R-1	IC 711	C-5	X 701	B-4
IC 5	N-3	IC 801	C-5	X 702	E-5
IC 6	M-4	IC 802	F-7		
IC 7	M-3	IC 803	B-3		
IC 8	N-3	IC 804	B-6		
IC 10	P-1	IC 805	A-7		
IC 11	R-3	IC 806	B-5		
IC 15	F-3	IC 807	A-5		
IC 101	L-5	IC 808	A-7		
IC 102	K-5	IC 809	A-6		
IC 103	L-5	IC 810	A-6		
IC 104	M-5				
IC 105	M-6	L 401	N-1		
IC 106	M-6	L 602	L-7		
IC 107	L-6	L 603	K-7		
IC 301	G-2				
IC 302	N-5	*Q 401	K-7		
IC 303	G-1	*Q 402	K-4		
IC 401	L-2	*Q 403	J-6		

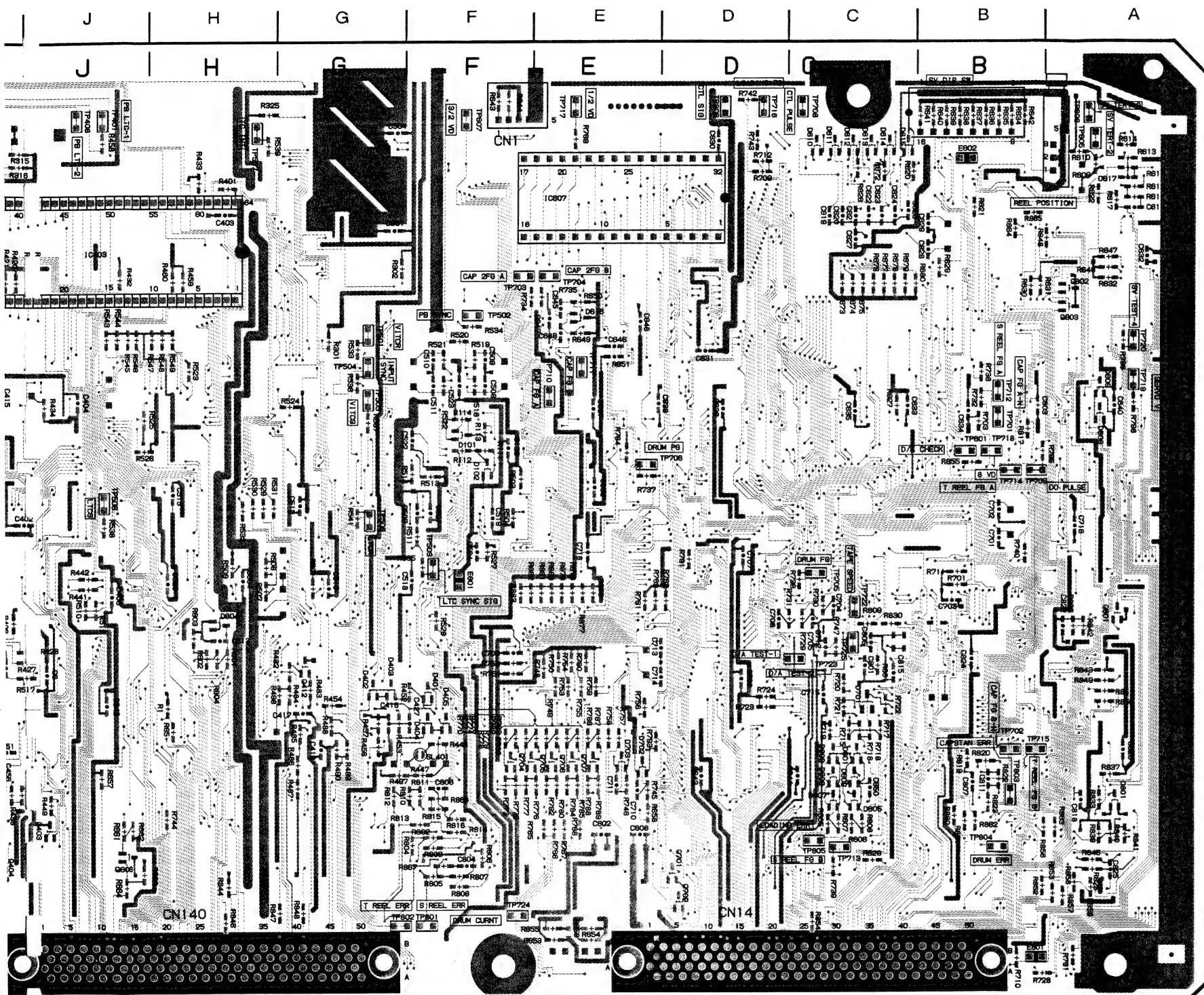
*: B SIDE



SS-48P 1-640-029-13 A SIDE

SS-48P; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER,
CHARACTER GENERATOR

SS-48P 1-640-029-13 B S



SS-48P 1-640-029-13 B SIDE

SS-48P (1-640-029-13)

CN 1	F-1	IC 402	J-4	*Q 404	K-7
CN 139	N-7	IC 403	J-2	*Q 405	K-6
CN 140	H-7	IC 404	J-3	*Q 406	M-1
CN 141	C-7	IC 405	M-1	*Q 407	M-1
		IC 406	L-3	*Q 408	M-1
COP 1	R-4	IC 407	J-5	*Q 409	M-1
COP 2	R-4	IC 408	M-1	*Q 410	N-1
COP 3	R-4	IC 410	G-6	*Q 411	K-6
COP 4	R-4	IC 411	K-6	*Q 412	G-5
		IC 412	K-6	Q 604	E-7
COR 1	R-4	IC 413	G-6	Q 605	E-7
		IC 414	K-3	*Q 606	J-7
CV 401	M-1	IC 415	J-6	*Q 701	D-7
CV 402	M-1	IC 501	G-3	*Q 702	D-7
		IC 502	G-4	*Q 703	F-6
*D 101	F-3	IC 504	G-4	*Q 704	F-6
*D 102	F-4	IC 505	F-4	*Q 705	E-6
*D 401	F-5	IC 506	H-4	*Q 706	E-6
*D 402	G-5	IC 507	H-4	*Q 707	E-6
*D 403	G-5	IC 508	F-4	*Q 708	L-7
*D 404	F-6	IC 510	F-3	*Q 709	M-7
*D 405	F-6	IC 511	H-3	*Q 710	L-6
*D 406	K-3	IC 514	F-3	*Q 711	M-7
*D 601	C-6	IC 601	H-5	*Q 801	A-5
*D 602	C-6	IC 602	C-6	*Q 802	A-2
*D 603	C-6	IC 603	A-1	*Q 803	A-2
*D 604	H-5	IC 604	C-2	Q 805	A-4
*D 605	C-6	IC 605	B-4		
*D 606	C-6	IC 606	B-3	S 1	R-1
*D 607	C-6	IC 607	E-2	S 2	P-1
*D 608	A-3	IC 608	C-3	S 302	K-1
*D 609	A-3	IC 609	D-3	S 303	L-1
*D 610	C-1	IC 610	E-3	S 304	L-1
*D 611	C-1	IC 611	E-3	S 601	B-1
*D 612	C-1	IC 612	D-2	S 602	A-1
*D 613	C-1	IC 613	E-4		
*D 614	C-1	IC 615	A-2	TP 6	R-2
*D 615	C-1	IC 616	A-3	TP 401	J-1
*D 616	E-2	IC 618	D-6	TP 408	J-1
*D 701	C-5	IC 619	J-5	TP 708	C-1
*D 702	E-6	IC 620	D-6	TP 717	E-1
*D 703	E-6	IC 621	E-2	TP 801	F-7
*D 801	A-6	IC 622	E-2	TP 802	G-7
		IC 701	B-4	TP 806	D-1
E 401	N-2	IC 702	A-4		
E 601	F-5	IC 703	C-5	X 1	R-3
E 602	B-1	IC 704	C-6	X 101	L-4
		IC 706	D-4	X 401	K-1
IC 1	P-3	IC 707	D-5	X 402	M-1
IC 2	J-5	IC 709	E-4	X 501	F-3
IC 3	P-1	IC 710	E-5	X 601	B-2
IC 4	R-1	IC 711	C-5	X 701	B-4
IC 5	N-3	IC 801	C-5	X 702	E-5
IC 6	M-4	IC 802	F-7		
IC 7	M-3	IC 803	B-3		
IC 8	N-3	IC 804	B-6		
IC 10	P-1	IC 805	A-7		
IC 11	R-3	IC 806	B-5		
IC 15	F-3	IC 807	A-5		
IC 101	L-5	IC 808	A-7		
IC 102	K-5	IC 809	A-6		
IC 103	L-5	IC 810	A-6		
IC 104	M-5				
IC 105	M-6	L 401	N-1		
IC 106	M-6	L 602	L-7		
IC 107	L-6	L 603	K-7		
IC 301	G-2				
IC 302	N-5	*Q 401	K-7		
IC 303	G-1	*Q 402	K-4		
IC 401	L-2	*Q 403	J-6		

*: B SIDE

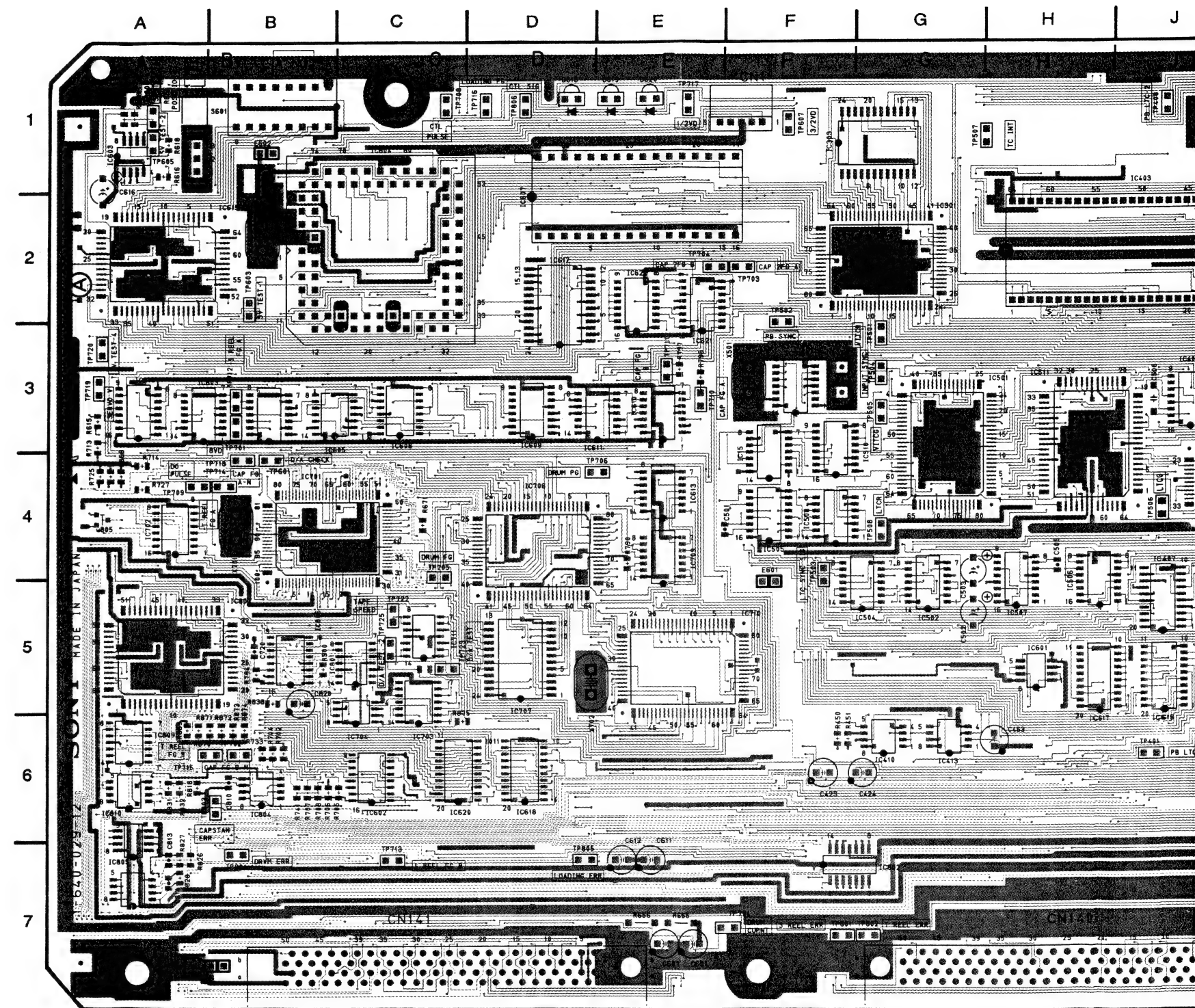
Serial No. (EK); 10001 to 13100

SS-48P ; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER, CHARACTER GENERATOR

SS-48P (1-640-029-12)

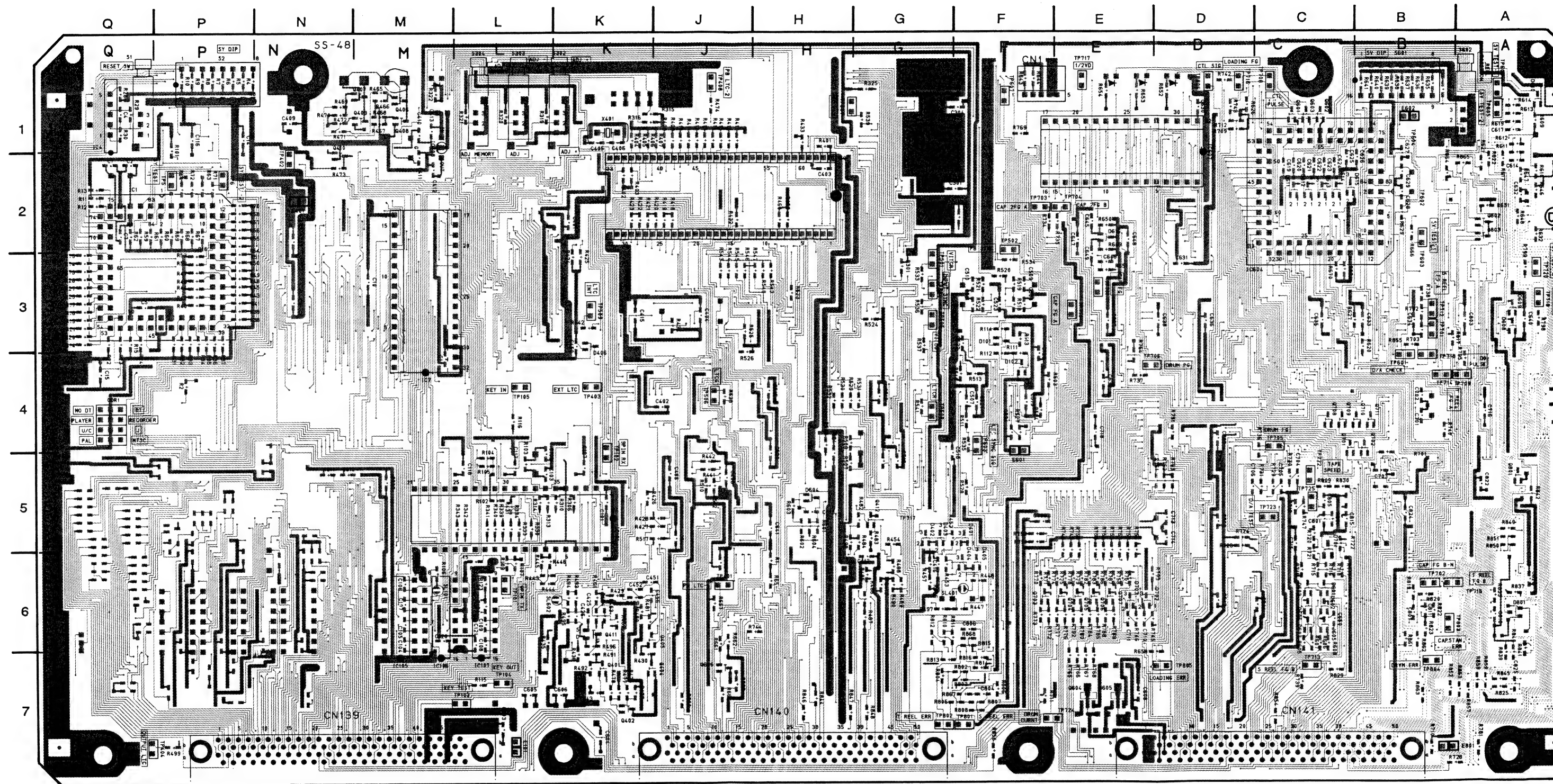
CN 1	F-1	IC 401	L-2	*Q 402	K-7	TP 703	F-2
CN 139	N-7	IC 402	K-4	*Q 404	J-7	TP 704	E-2
CN 140	H-7	IC 403	J-2	*Q 405	J-6	TP 705	C-4
CN 141	C-7	IC 404	J-3	*Q 406	M-1	TP 706	D-4
		IC 405	N-2	*Q 407	M-1	TP 708	C-1
COR 1	Q-4	IC 406	K-3	*Q 408	M-1	TP 709	A-4
		IC 407	J-4	*Q 409	M-1	TP 710	E-3
CV 401	M-1	IC 408	M-2	*Q 410	N-2	TP 711	E-3
CV 402	M-1	IC 409	J-5	*Q 411	K-6	TP 712	B-3
		IC 410	G-6	*Q 412	G-5	TP 713	C-7
*D 101	F-3	IC 411	K-6	*Q 601	C-1	TP 714	B-4
*D 102	F-4	IC 412	K-6	*Q 602	C-1	TP 715	A-6
D 301	M-1	IC 413	G-6	*Q 603	C-1	TP 716	D-1
*D 401	F-5	IC 414	K-3	*Q 604	E-7	TP 717	E-1
*D 402	G-5	IC 501	H-3	*Q 605	E-7	TP 718	B-4
*D 403	G-5	IC 502	G-5	*Q 606	J-7	TP 719	A-3
*D 404	F-6	IC 504	G-5	*Q 701	C-4	TP 720	A-3
*D 405	F-6	IC 505	F-4	*Q 702	B-4	TP 722	C-5
*D 406	K-4	IC 506	H-5	*Q 703	F-6	TP 723	C-5
*D 601	C-6	IC 507	H-5	*Q 704	E-6	TP 724	F-7
*D 602	C-6	IC 508	F-4	*Q 705	E-6	TP 725	C-5
*D 603	C-6	IC 510	G-4	*Q 706	E-6	TP 801	F-7
*D 604	H-5	IC 511	H-3	*Q 707	E-6	TP 802	G-7
*D 605	C-6	IC 514	F-3	*Q 708	C-4	TP 803	A-6
*D 606	C-6	IC 601	H-5	*Q 709	C-4	TP 804	B-7
*D 607	C-6	IC 602	C-6	*Q 710	B-4	TP 805	D-7
*D 608	A-3	IC 603	A-1	*Q 711	B-4	TP 806	D-1
*D 609	A-3	IC 604	C-1	*Q 801	A-5		
*D 610	A-1	IC 605	B-3	*Q 802	A-2	X 1	Q-2
*D 611	C-2	IC 606	B-3	*Q 803	A-2	X 101	L-4
*D 612	C-2	IC 607	D-2	Q 805	A-4	X 401	K-1
*D 613	C-2	IC 608	C-3			X 501	F-3
*D 614	C-2	IC 609	D-3	S 1	Q-1	X 601	B-2
*D 615	B-2	IC 610	E-3	S 2	P-1	X 701	B-4
*D 616	E-2	IC 611	D-3	S 302	K-1	X 702	D-6
D 618	D-1	IC 612	D-2	S 303	L-1		
D 619	E-1	IC 613	E-4	S 304	L-1		
D 620	E-1	IC 615	B-2	S 601	B-1		
*D 701	C-5	IC 616	A-3	S 602	A-1		
*D 702	D-6	IC 617	H-5				
*D 703	E-6	IC 618	D-6	TP 5	P-2		
*D 801	A-6	IC 619	J-5	TP 6	P-2		
		IC 620	C-6	TP 101	L-6		
E 101	L-7	IC 621	E-3	TP 102	K-5		
E 401	N-2	IC 622	E-2	TP 103	L-7		
E 601	F-4	IC 701	B-4	TP 104	L-7		
E 602	B-1	IC 702	A-4	TP 105	L-4		
E 801	A-7	IC 703	C-6	TP 401	J-6		
		IC 704	C-6	TP 402	N-2		
IC 1	Q-2	IC 706	D-4	TP 403	K-4		
IC 2	K-5	IC 707	D-5	TP 404	Q-7		
IC 3	P-1	IC 709	E-4	TP 408	J-1		
IC 4	Q-1	IC 710	F-5	TP 501	G-3		
IC 5	N-3	IC 711	C-5	TP 502	F-2		
IC 6	M-3	IC 801	B-5	TP 503	F-4		
IC 7	M-4	IC 802	G-7	TP 504	G-3		
IC 8	N-2	IC 803	A-3	TP 505	G-3		
IC 10	P-1	IC 804	B-6	TP 506	J-4		
IC 11	Q-4	IC 805	A-7	TP 507	G-1		
IC 15	F-4	IC 806	B-5	TP 508	G-4		
IC 101	K-5	IC 807	B-5	TP 509	K-3		
IC 102	K-5	IC 808	A-7	TP 601	B-4		
IC 103	L-4	IC 809	A-6	*TP 602	B-2		
IC 104	L-4	IC 810	A-6	TP 603	B-2		
IC 105	M-7			*TP 604	B-1		
IC 106	M-7	L 401	N-1	TP 605	A-1		
IC 107	L-7	L 602	L-7	TP 606	A-1		
IC 301	G-2	L 603	K-7	TP 607	F-1		
IC 302	N-4			TP 701	B-3		
IC 303	F-1	*Q 401	K-7	TP 702	B-6		

*: B SIDE

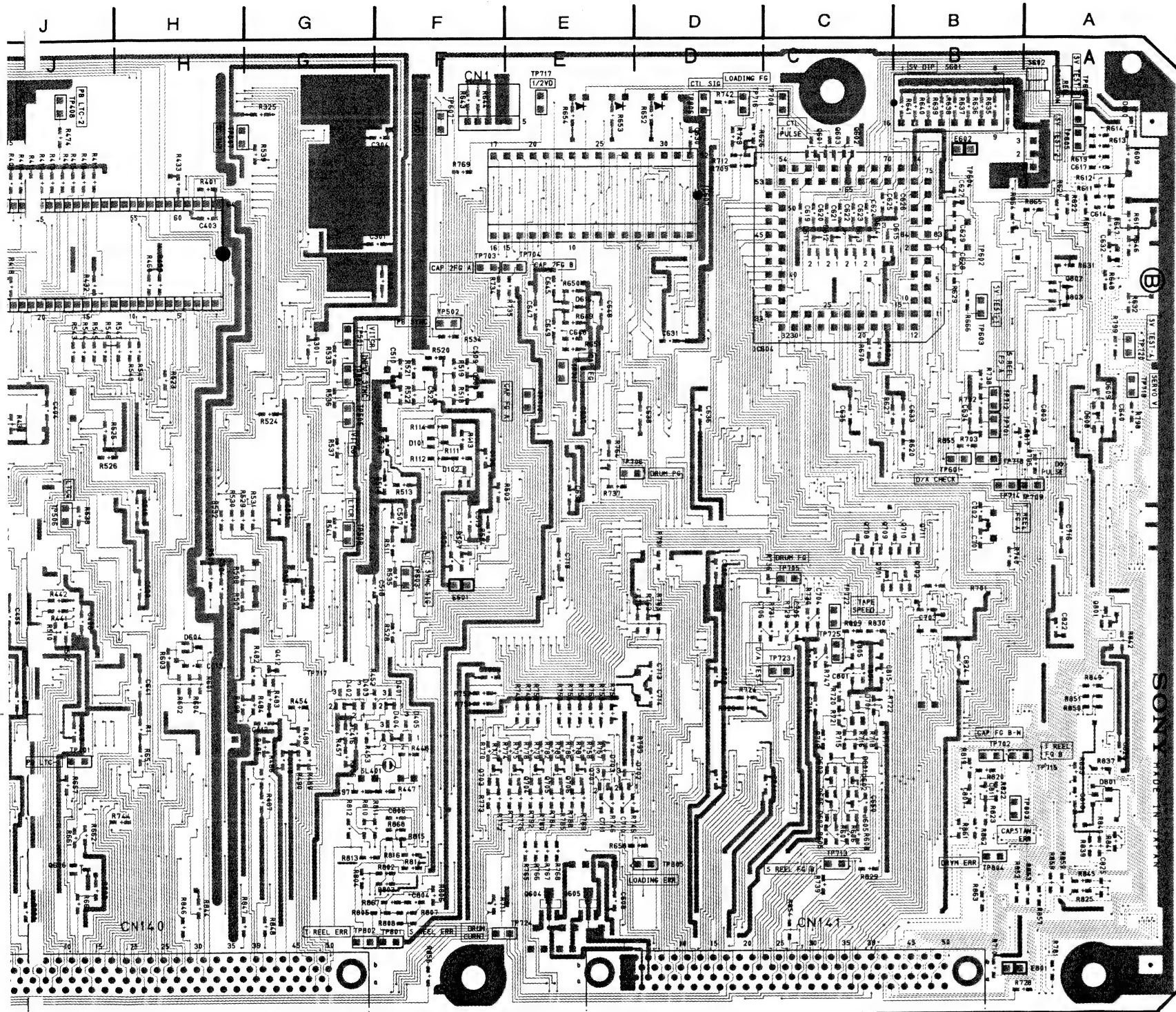


15-13(a)

Serial No. (EK); 10001 to 13100

SS-48P ; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER,
CHARACTER GENERATOR

SS-48P 1-640-029-12 B SII



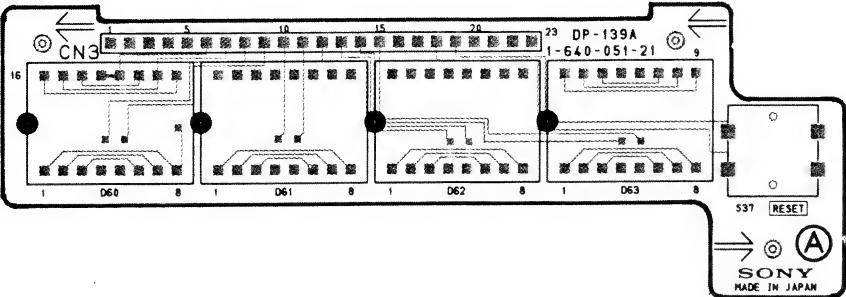
SS-48P 1-640-029-12 B SIDE

SS-48P (1-640-029-12)

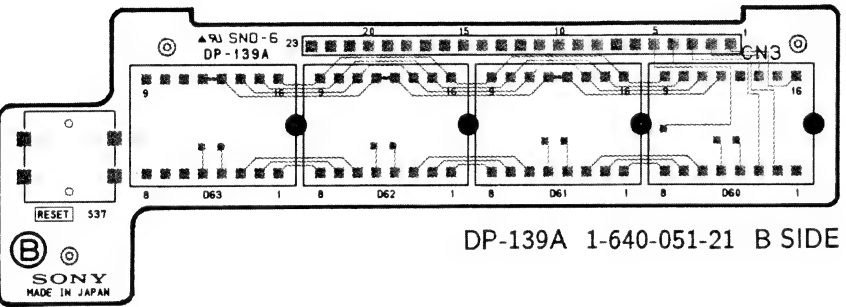
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CN 139	N-7	IC 402	K-4	*Q 404	J-7	TP 704	E-2
CN 140	H-7	IC 403	J-2	*Q 405	J-6	TP 705	C-4
CN 141	C-7	IC 404	J-3	*Q 406	M-1	TP 706	D-4
		IC 405	N-2	*Q 407	M-1	TP 708	C-1
COR 1	Q-4	IC 406	K-3	*Q 408	M-1	TP 709	A-4
		IC 407	J-4	*Q 409	M-1	TP 710	E-3
CV 401	M-1	IC 408	M-2	*Q 410	N-2	TP 711	E-3
CV 402	M-1	IC 409	J-5	*Q 411	K-6	TP 712	B-3
		IC 410	G-6	*Q 412	G-5	TP 713	C-7
*D 101	F-3	IC 411	K-6	*Q 601	C-1	TP 714	B-4
*D 102	F-4	IC 412	K-6	*Q 602	C-1	TP 715	A-6
D 301	M-1	IC 413	G-6	*Q 603	C-1	TP 716	D-1
*D 401	F-5	IC 414	K-3	*Q 604	E-7	TP 717	E-1
*D 402	G-5	IC 501	H-3	*Q 605	E-7	TP 718	B-4
*D 403	G-5	IC 502	G-5	*Q 606	J-7	TP 719	A-3
*D 404	F-6	IC 504	G-5	*Q 701	C-4	TP 720	A-3
*D 405	F-6	IC 505	F-4	*Q 702	B-4	TP 722	C-5
*D 406	K-4	IC 506	H-5	*Q 703	F-6	TP 723	C-5
*D 601	C-6	IC 507	H-5	*Q 704	E-6	TP 724	F-7
*D 602	C-6	IC 508	F-4	*Q 705	E-6	TP 725	C-5
*D 603	C-6	IC 510	G-4	*Q 706	E-6	TP 801	F-7
*D 604	H-5	IC 511	H-3	*Q 707	E-6	TP 802	G-7
*D 605	C-6	IC 514	F-3	*Q 708	C-4	TP 803	A-6
*D 606	C-6	IC 601	H-5	*Q 709	C-4	TP 804	B-7
*D 607	C-6	IC 602	C-6	*Q 710	B-4	TP 805	D-7
*D 608	A-3	IC 603	A-1	*Q 711	B-4	TP 806	D-1
*D 609	A-3	IC 604	C-1	*Q 801	A-5		
*D 610	A-1	IC 605	B-3	*Q 802	A-2	X 1	Q-2
*D 611	C-2	IC 606	B-3	*Q 803	A-2	X 101	L-4
*D 612	C-2	IC 607	D-2	Q 805	A-4	X 401	K-1
*D 613	C-2	IC 608	C-3			X 501	F-3
*D 614	C-2	IC 609	D-3	S 1	Q-1	X 601	B-2
*D 615	B-2	IC 610	E-3	S 2	P-1	X 701	B-4
*D 616	E-2	IC 611	D-3	S 302	K-1	X 702	D-6
D 618	D-1	IC 612	D-2	S 303	L-1		
D 619	E-1	IC 613	E-4	S 304	L-1		
D 620	E-1	IC 615	B-2	S 601	B-1		
*D 701	C-5	IC 616	A-3	S 602	A-1		
*D 702	D-6	IC 617	H-5				
*D 703	E-6	IC 618	D-6	TP 5	P-2		
*D 801	A-6	IC 619	J-5	TP 6	P-2		
		IC 620	C-6	TP 101	L-6		
E 101	L-7	IC 621	E-3	TP 102	K-5		
E 401	N-2	IC 622	E-2	TP 103	L-7		
E 601	F-4	IC 701	B-4	TP 104	L-7		
E 602	B-1	IC 702	A-4	TP 105	L-4		
E 801	A-7	IC 703	C-6	TP 401	J-6		
		IC 704	C-6	TP 402	N-2		
IC 1	Q-2	IC 706	D-4	TP 403	K-4		
IC 2	K-5	IC 707	D-5	TP 404	Q-7		
IC 3	P-1	IC 709	E-4	TP 408	J-1		
IC 4	Q-1	IC 710	F-5	TP 501	G-3		
IC 5	N-3	IC 711	C-5	TP 502	F-2		
IC 6	M-3	IC 801	B-5	TP 503	F-4		
IC 7	M-4	IC 802	G-7	TP 504	G-3		
IC 8	N-2	IC 803	A-3	TP 505	G-3		
IC 10	P-1	IC 804	B-6	TP 506	J-4		
IC 11	Q-4	IC 805	A-7	TP 507	G-1		
IC 15	F-4	IC 806	B-5	TP 508	G-4		
IC 101	K-5	IC 807	B-5	TP 509	K-3		
IC 102	K-5	IC 808	A-7	TP 601	B-4		
IC 103	L-4	IC 809	A-6	*TP 602	B-2		
IC 104	L-4	IC 810	A-6	TP 603	B-2		
IC 105	M-7			*TP 604	B-1		
IC 106	M-7	L 401	N-1	TP 605	A-1		
IC 107	L-7	L 602	L-7	TP 606	A-1		
IC 301	G-2	L 603	K-7	TP 607	F-1		
IC 302	N-4			TP 701	B-3		
IC 303	F-1	*Q 401	K-7	TP 702	B-6		

*: B SIDE

KY-210A ; KEYBOARD
DP-139A ; TIME CODE DISPLAY
PTC-39 ; SEARCH DIAL

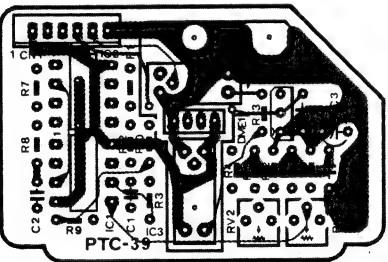


DP-139A 1-640-051-21 A SIDE

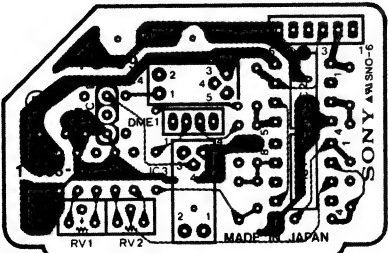


DP-139A 1-640-051-21 B SIDE

Serial No.(EK);13316 and higher
Serial No.(UC);10001 and higher



PTC-39 1-633-548-13 A SIDE



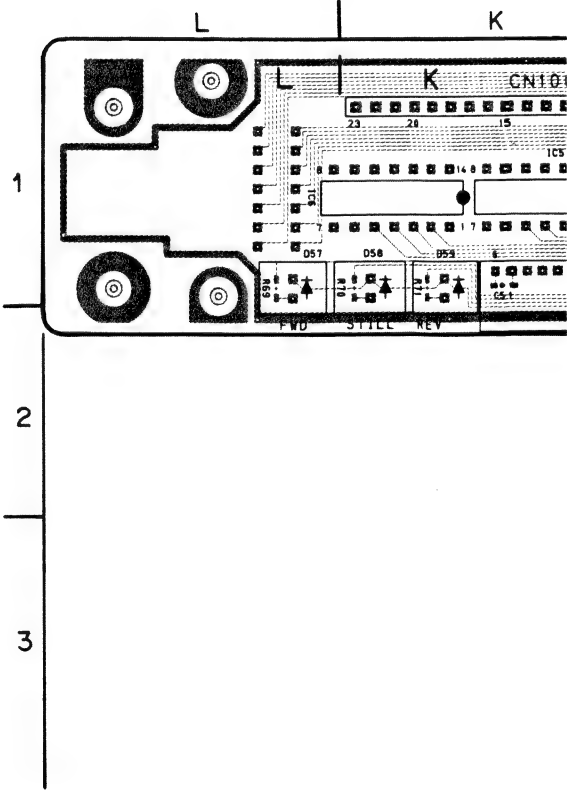
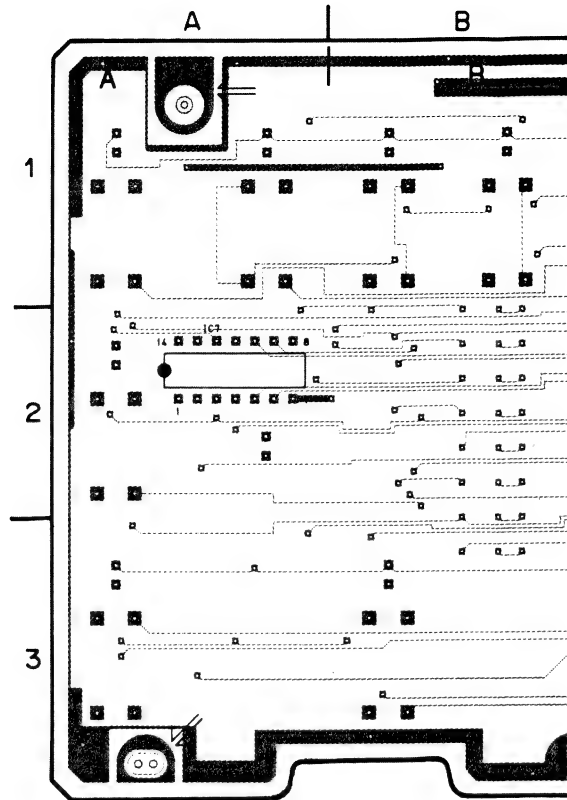
PTC-39 1-633-548-13 B SIDE

KY-210A (1-640-050-22)

CN 2	K-1	*Q 34	E-3
CN 590	E-1	*Q 35	H-3
CN 1003	A-1	*Q 36	H-3
		*Q 37	G-3
*D 1	H-2	*Q 38	G-3
*D 2	H-1	*Q 39	F-3
D 4	F-1	*Q 40	F-3
D 5	F-1	*Q 41	G-3
D 6	F-1	*Q 42	G-3
D 7	G-1	*Q 43	J-3
D 8	G-1	*Q 44	J-3
D 9	G-1	*Q 45	G-3
D 10	G-1	*Q 46	G-3
*D 11	F-3	*Q 47	E-2
*D 12	F-3	*Q 48	E-2
*D 13	F-3	*Q 87	H-2
*D 14	F-3	*Q 88	H-2
*D 23	G-2		
*D 29	F-1	S 1	E-3
*D 30	G-1	S 2	H-3
D 49	G-3	S 3	G-3
D 55	J-3	S 4	F-3
D 56	J-3	S 5	G-3
D 57	L-1	S 6	J-3
D 58	K-1	S 7	E-2
D 59	K-1	S 24	J-1
D 63	F-1	S 34	F-1
D 1060	A-1	S 35	G-1
D 1061	A-1	S 1037	B-1
D 1062	B-1		
D 1063	B-1	TP 1	E-1
E 1	E-1	X 1	E-2
IC 2	D-1		
IC 3	H-3		
IC 4	E-3		
IC 5	K-1		
IC 6	K-1		
IC 7	A-2		
IC 8	H-1		
*Q 2	D-1		
*Q 3	E-1		
*Q 4	J-1		
*Q 5	J-1		
*Q 6	J-1		
*Q 7	J-1		
*Q 8	J-1		
*Q 9	J-1		
*Q 10	J-1		
*Q 12	B-3		
*Q 13	B-3		
*Q 14	B-2		
*Q 15	B-2		
*Q 16	B-2		
*Q 17	B-2		
*Q 18	B-2		
*Q 19	B-2		
*Q 20	C-3		
*Q 21	C-3		
*Q 22	C-3		
*Q 23	C-3		
*Q 24	C-3		
*Q 25	B-3		
*Q 26	B-3		
*Q 27	B-2		
*Q 28	B-2		
*Q 29	B-2		
*Q 30	B-2		
*Q 31	B-2		
*Q 32	B-2		
*Q 33	E-3		

* : B SIDE

Serial No.(EK);14286
Serial No.(UC);10011

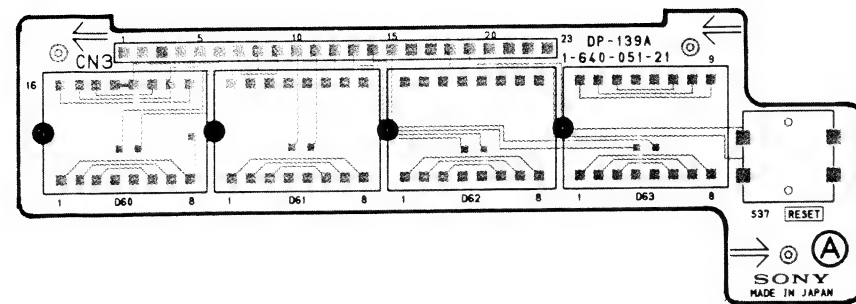


This is a detailed schematic diagram of a Sony CCD camera circuit board. The board is populated with numerous integrated circuits (ICs), resistors, capacitors, and other electronic components. Key functional blocks and components are labeled, including:

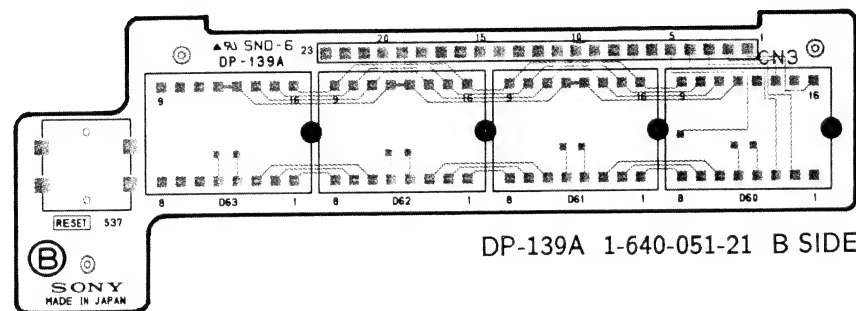
- Connectors:** CN1003, CN2, and various pin headers.
- Control and Timing:** JOG, SHUTTLE, SEARCH, STOP, SERVO LOCK, EJECT, and STAND-BY.
- Image Processing:** ICs labeled R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R245, R246, R247, R248, R249, R250, R251, R252, R253, R254, R255, R256, R257, R258, R259, R260, R261, R262, R263, R264, R265, R266, R267, R268, R269, R270, R271, R272, R273, R274, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R293, R294, R295, R296, R297, R298, R299, R300, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R8

15-15(b)

KY-210A ; KEYBOARD
 DP-139A ; TIME CODE DISPLAY
 PTC-39 ; SEARCH DIAL

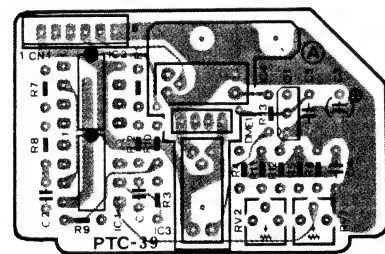


DP-139A 1-640-051-21 A SIDE

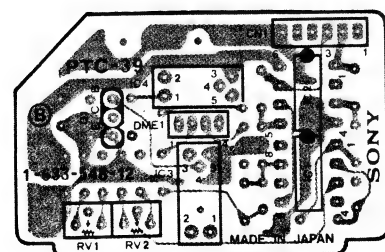


DP-139A 1-640-051-21 B SIDE

Serial No.(EK);10001 to 13315

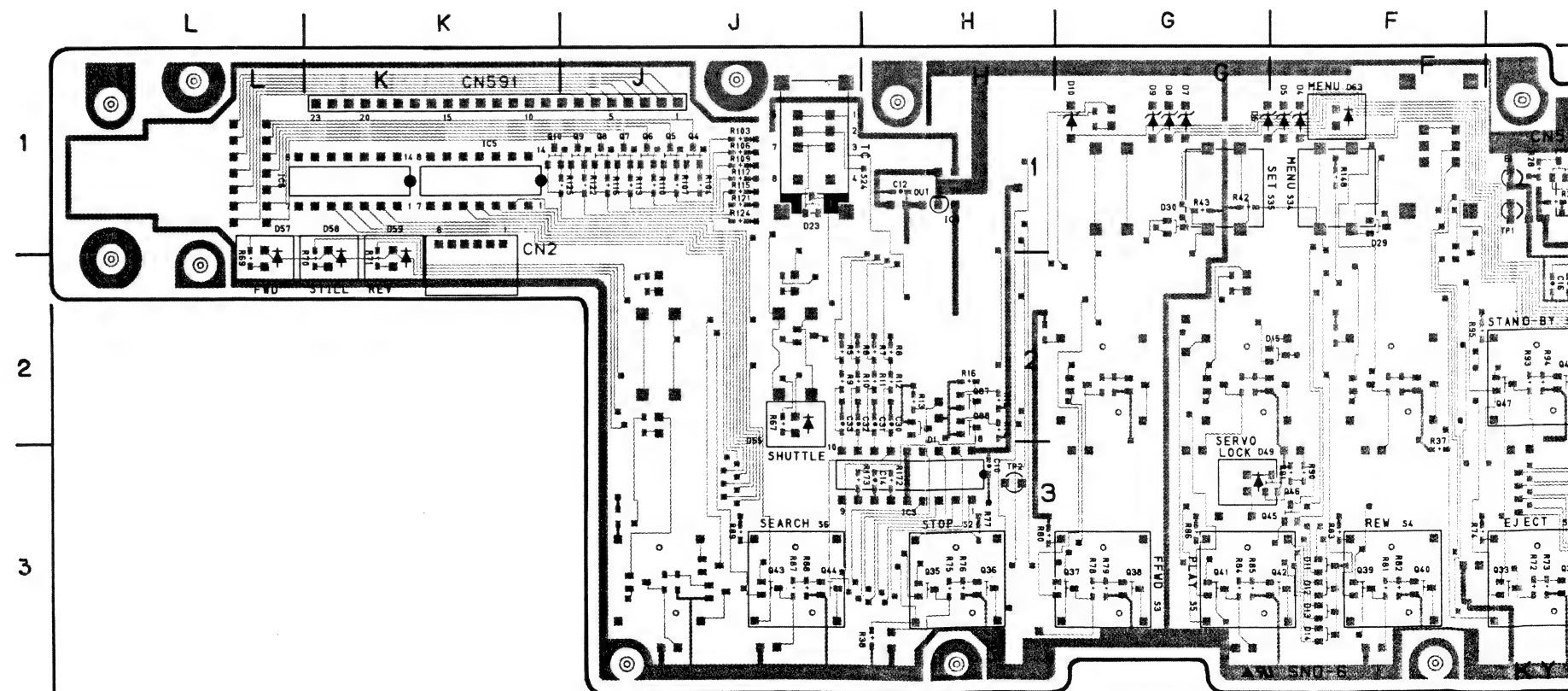
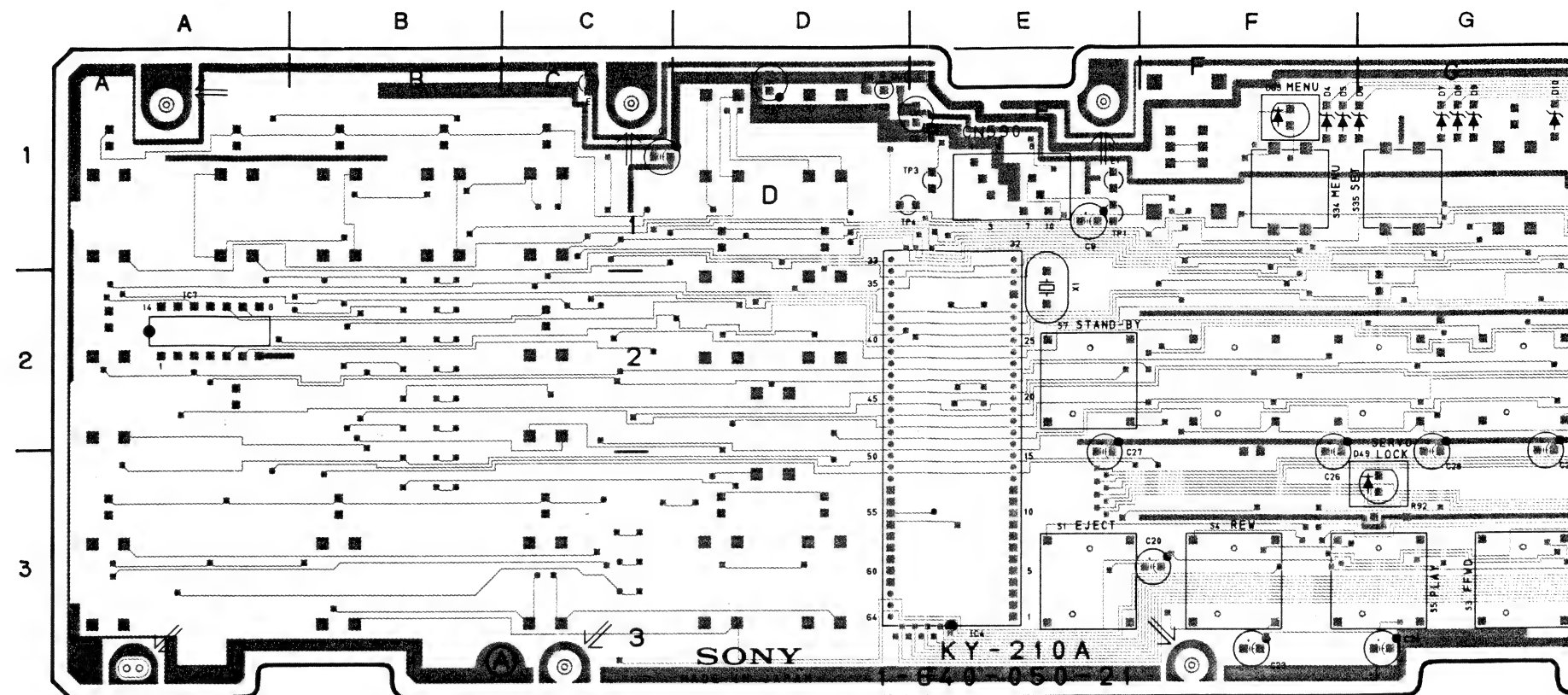


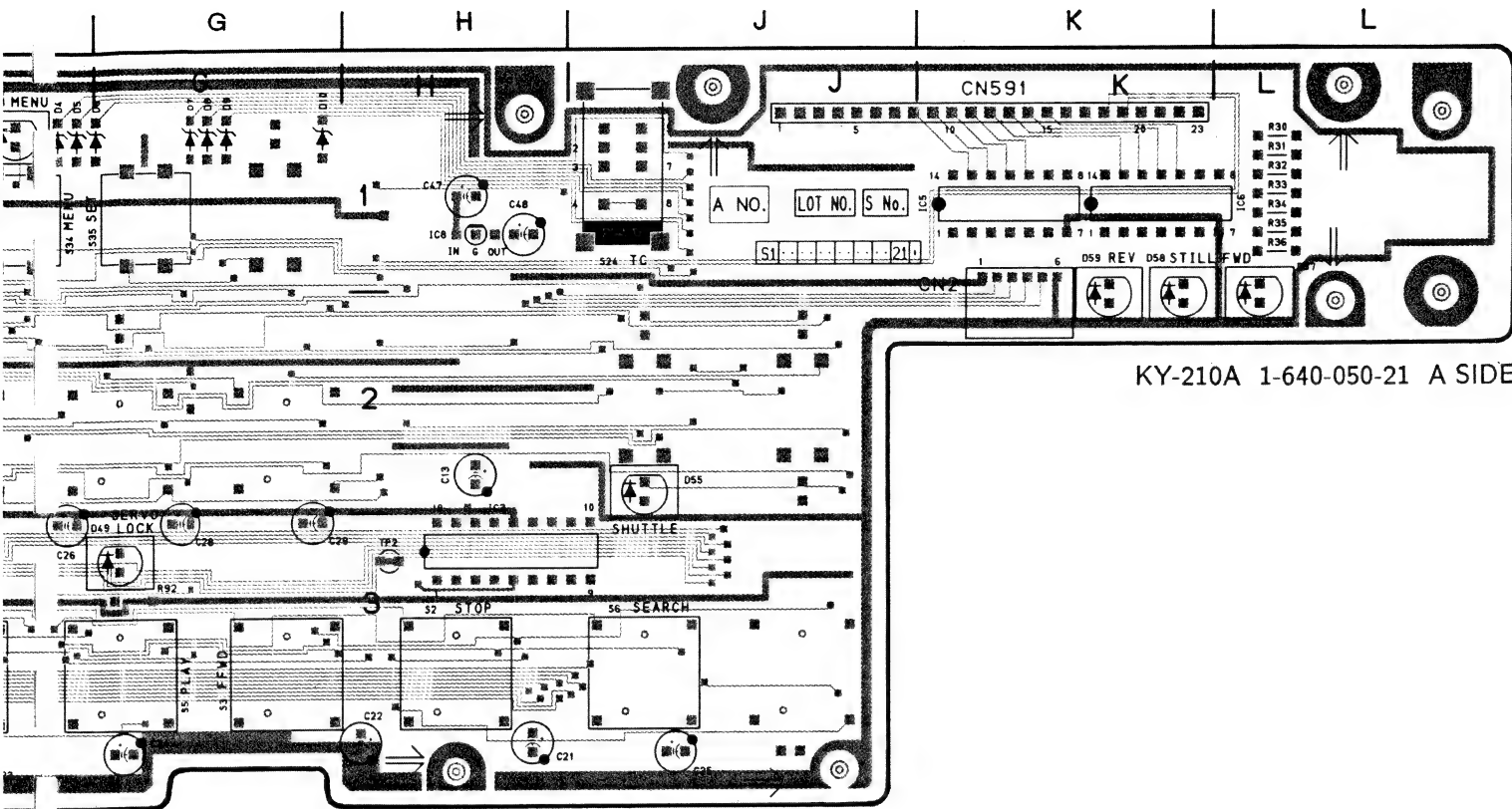
PTC-39 1-633-548-12 A SIDE



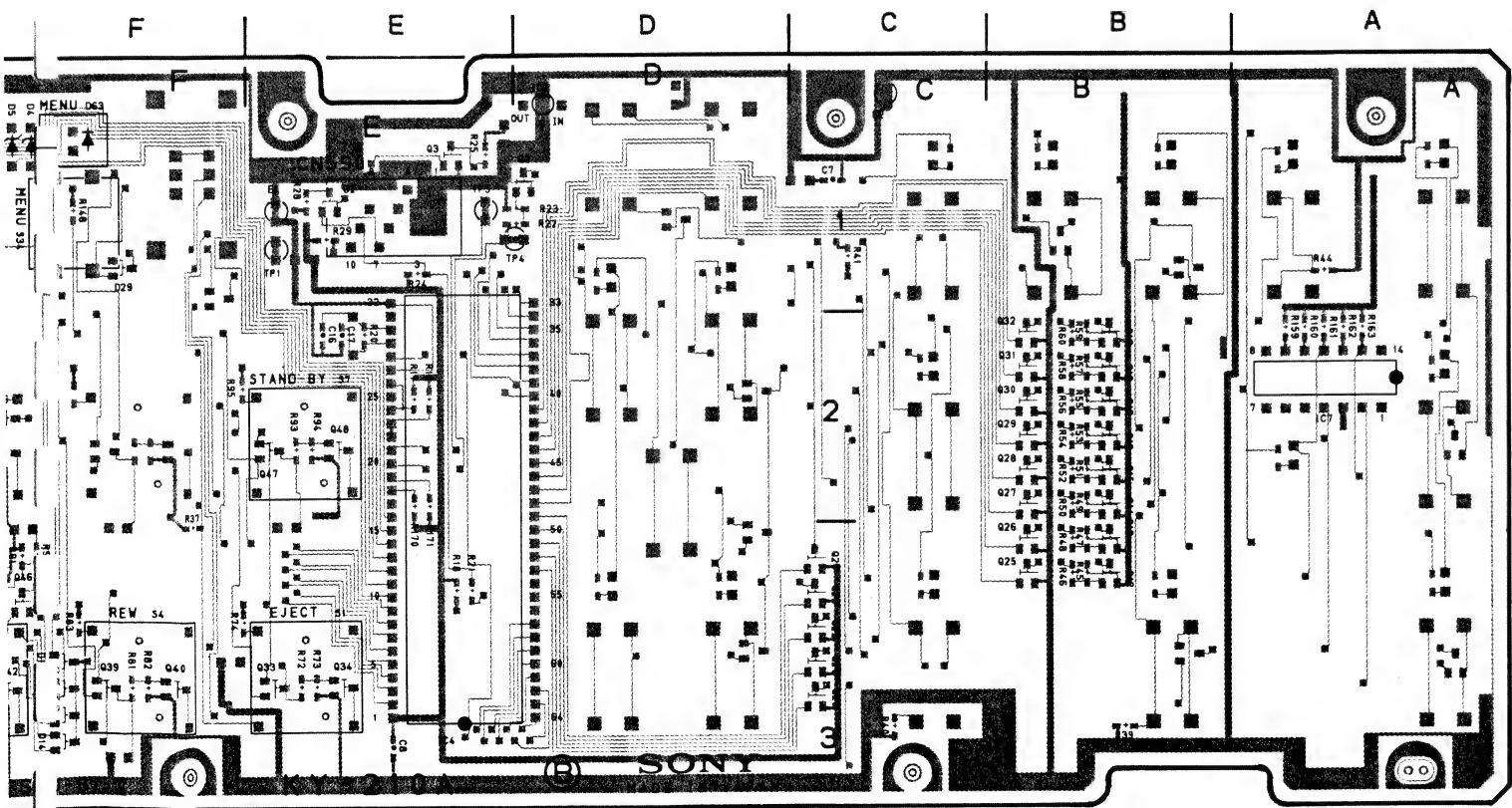
PTC-39 1-633-548-12 B SIDE

Serial No.(EK);10001 to 14285
 Serial No.(UC);10001 to 10010





KY-210A 1-640-050-21 A SIDE



KY-210A 1-640-050-21 B SIDE

KY-210A (1-640-050-21)

CN 2	K-1	*Q 31	B-2
CN 590	E-1	*Q 32	B-2
CN 1003	A-1	*Q 33	E-3
		*Q 34	E-3
*D 1	H-2	*Q 35	H-3
*D 2	H-1	*Q 36	H-3
D 4	F-1	*Q 37	G-3
D 5	F-1	*Q 38	G-3
D 6	F-1	*Q 39	F-3
D 7	G-1	*Q 40	F-3
D 8	G-1	*Q 41	G-3
D 9	G-1	*Q 42	G-3
D 10	G-1	*Q 43	J-3
*D 11	F-3	*Q 44	J-3
*D 12	F-3	*Q 45	G-3
*D 13	F-3	*Q 46	G-3
*D 14	F-3	*Q 47	E-2
*D 23	G-2	*Q 48	E-2
*D 29	F-1	*Q 87	H-2
*D 30	G-1	*Q 88	H-2
D 49	G-3		
D 55	J-3	S 1	E-3
D 57	L-1	S 2	H-3
D 58	K-1	S 3	G-3
D 59	K-1	S 4	F-3
D 63	F-1	S 5	G-3
D 1060	A-1	S 6	J-3
D 1061	A-1	S 7	E-2
D 1062	B-1	S 24	J-1
D 1063	B-1	S 34	F-1
		S 35	G-1
		S 1037	B-1
E 1	E-1	TP 1	E-1
E 2	C-1	TP 2	H-3
		TP 3	E-1
		TP 4	E-1
IC 2	D-1		
IC 3	H-3		
IC 4	E-3		
IC 5	K-1		
IC 6	K-1		
IC 7	A-2		
IC 8	H-1		
*Q 2	D-1		
*Q 3	E-1		
*Q 4	J-1		
*Q 5	J-1		
*Q 6	J-1		
*Q 7	J-1		
*Q 8	J-1		
*Q 9	J-1		
*Q 10	J-1		
*Q 12	B-3		
*Q 13	B-3		
*Q 14	B-2		
*Q 15	B-2		
*Q 16	B-2		
*Q 17	B-2		
*Q 18	B-2		
*Q 19	B-2		
*Q 20	C-3		
*Q 21	C-3		
*Q 22	C-3		
*Q 23	C-3		
*Q 24	C-3		
*Q 25	B-3		
*Q 26	B-3		
*Q 27	B-2		
*Q 28	B-2		
*Q 29	B-2		
*Q 30	B-2		

* : B SIDE

Serial No. (EK); 11151 to 14045
Serial No. (UC); 10001 to 10010

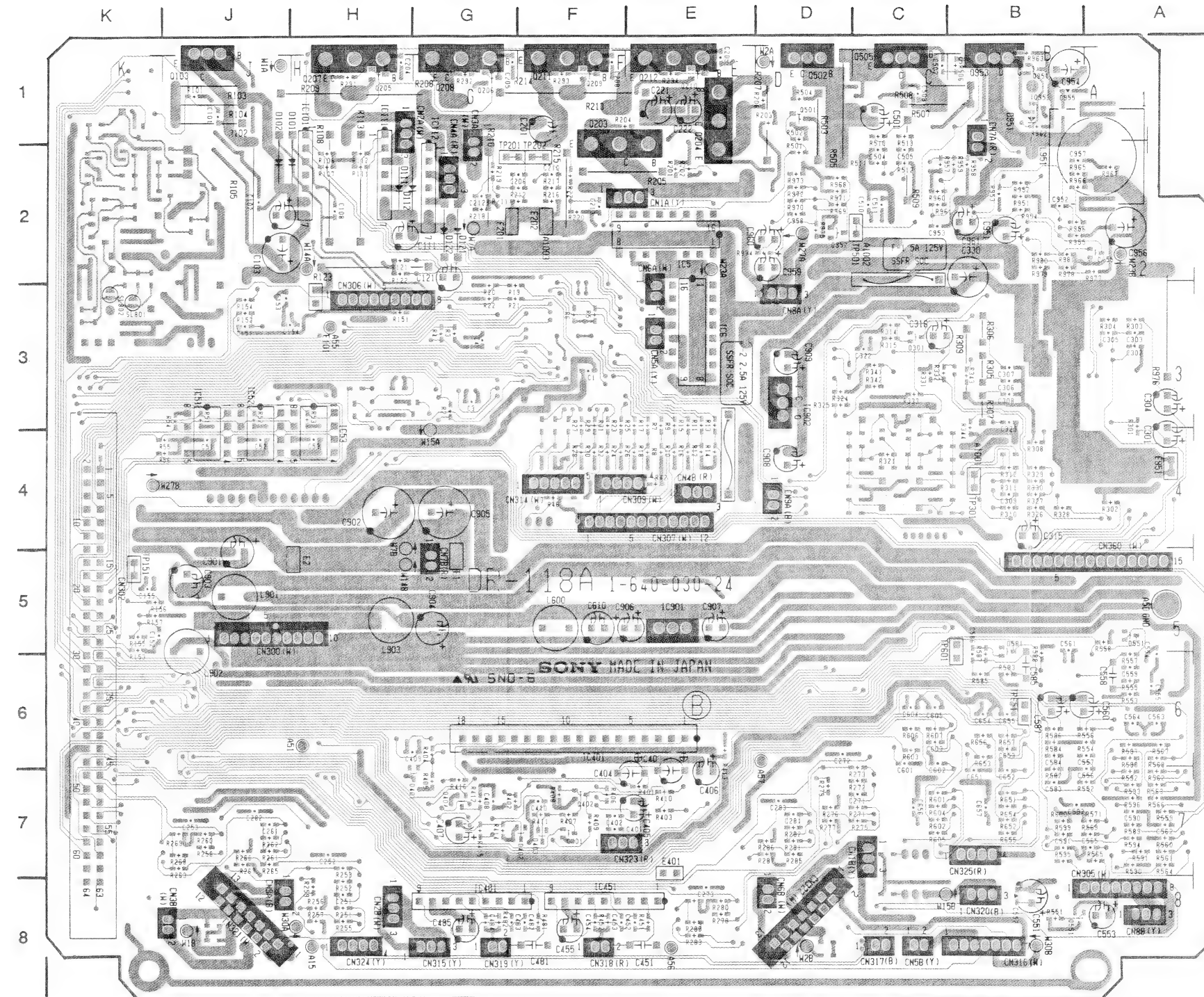
DR-118A DR-118A

DR-118A ; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFIER,
CTL PB, ADJUST DATA STORAGE

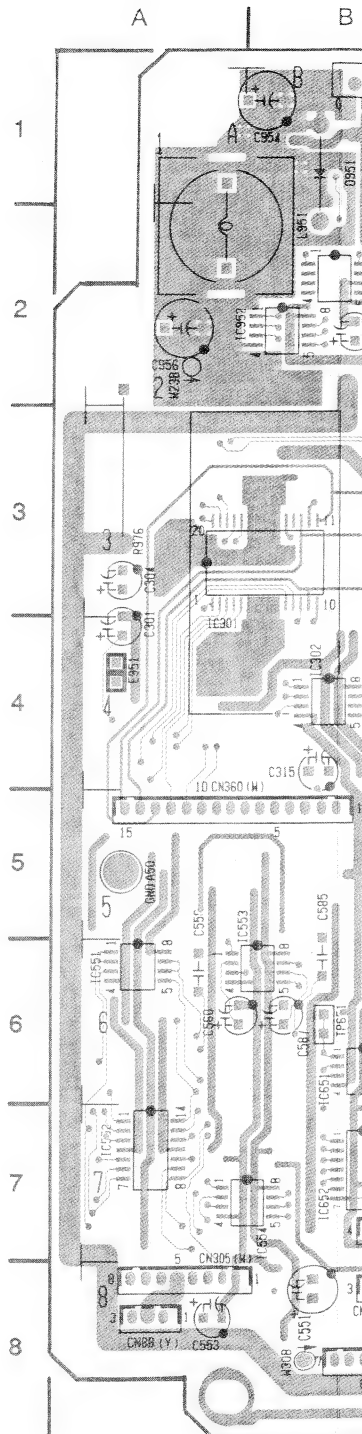
DR-118A (1-640-030-24)

CN 1A	E-2	IC 54	H-3	Q 505	C-1
CN 1B	C-7	IC 101	H-1	*Q 551	B-8
CN 2A	H-1	IC 111	H-1	*Q 951	B-1
CN 2B	H-8	IC 112	G-1	*Q 952	B-1
CN 3A	G-2	IC 151	J-3	Q 953	B-1
CN 3B	J-8	IC 152	K-5	Q 954	D-2
CN 4A	G-2	IC 201	F-2	Q 955	A-2
CN 4B	E-4	IC 251	H-8		
CN 5A	E-3	IC 252	J-7	TP 151	K-5
CN 5B	C-8	IC 253	J-7	TP 201	G-2
CN 6A	E-3	IC 271	D-7	TP 202	F-2
CN 6B	D-8	IC 272	E-8	TP 301	B-4
CN 7A	B-2	IC 273	D-7	TP 501	C-2
CN 7B	G-5	IC 301	A-4	TP 601	B-6
CN 8A	D-3	IC 302	B-4	TP 651	B-6
CN 8B	A-8	IC 304	C-3		
CN 9A	D-4	IC 305	C-3		
CN 9B	J-8	IC 401	F-6		
CN 300	J-5	IC 402	E-7		
CN 302	K-5	IC 403	G-6		
CN 305	A-8	IC 404	F-7		
CN 306	H-3	IC 405	G-7		
CN 307	E-4	IC 451	F-8		
CN 309	E-4	IC 481	G-8		
CN 314	F-4	IC 501	C-2		
CN 315	G-8	IC 551	B-6		
CN 316	B-8	IC 552	A-7		
CN 317	C-8	IC 553	B-6		
CN 318	F-8	IC 554	A-7		
CN 319	G-8	IC 601	C-6		
CN 320	B-8	IC 602	C-7		
CN 321	J-8	IC 651	B-6		
CN 322	D-8	IC 652	B-7		
CN 323	E-7	IC 901	E-5		
CN 324	H-8	IC 902	D-3		
CN 325	B-7	IC 951	B-2		
CN 360	A-5	IC 952	B-2		
		IC 953	B-2		
		IC 954	D-2		
D 101	H-1				
D 102	J-1				
D 111	H-2	L 600	F-5		
D 121	G-2	L 901	J-5		
D 122	G-2	L 902	J-5		
*D 301	C-3	L 903	H-5		
*D 401	G-7	L 951	B-2		
*D 402	F-7				
*D 403	F-7	Q 101	K-1		
*D 551	A-5	Q 102	J-2		
*D 581	A-6	Q 103	J-1		
D 951	B-1	Q 201	E-1		
*D 952	D-2	Q 202	D-2		
		Q 203	F-1		
E 1	G-5	Q 204	E-1		
E 2	H-5	*Q 205	H-1		
E 101	H-3	*Q 206	G-1		
E 201	G-2	Q 207	H-1		
E 401	E-8	Q 208	G-1		
E 951	A-4	*Q 209	F-1		
		*Q 210	E-1		
F 1	C-2	Q 211	F-1		
F 2	E-4	Q 212	E-1		
		*Q 401	F-7		
IC 1	F-3	*Q 402	F-7		
IC 5	E-2	*Q 404	G-7		
IC 6	E-3	*Q 501	D-1		
IC 51	J-3	Q 502	D-1		
IC 52	J-3	Q 503	C-1		
IC 53	H-4	Q 504	C-1		

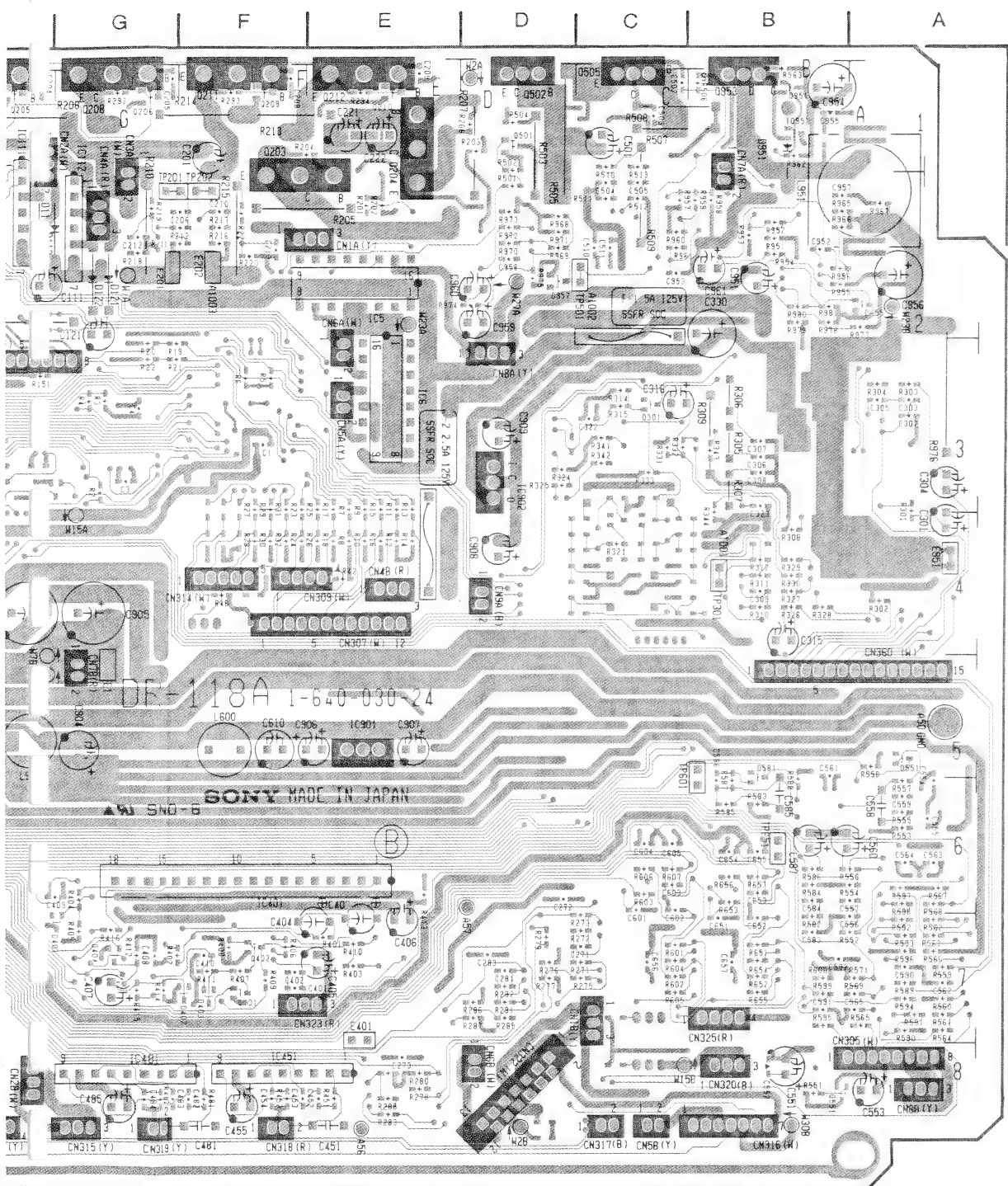
* : B SIDE



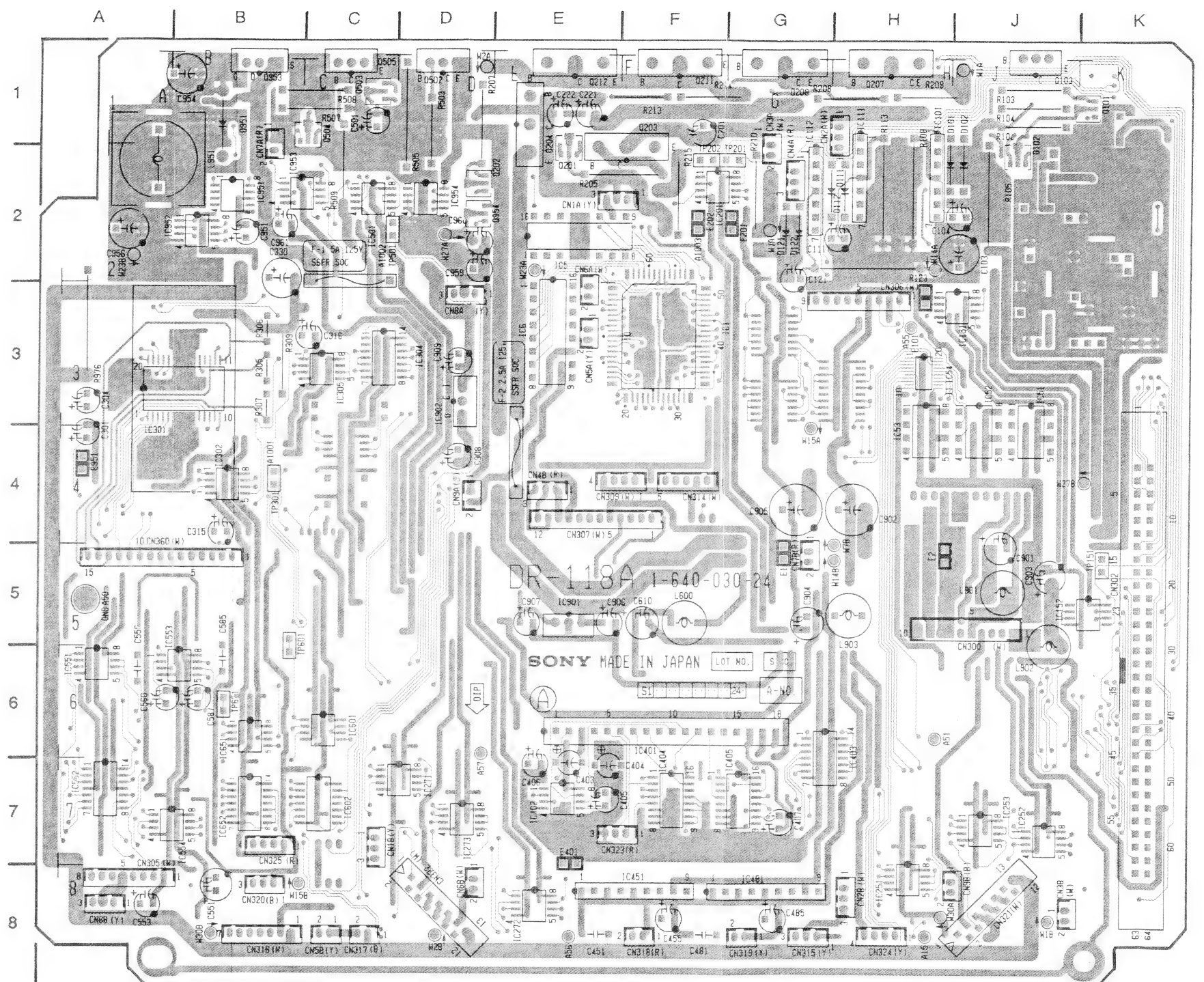
DR-118A 1-640-030-24 B SIDE



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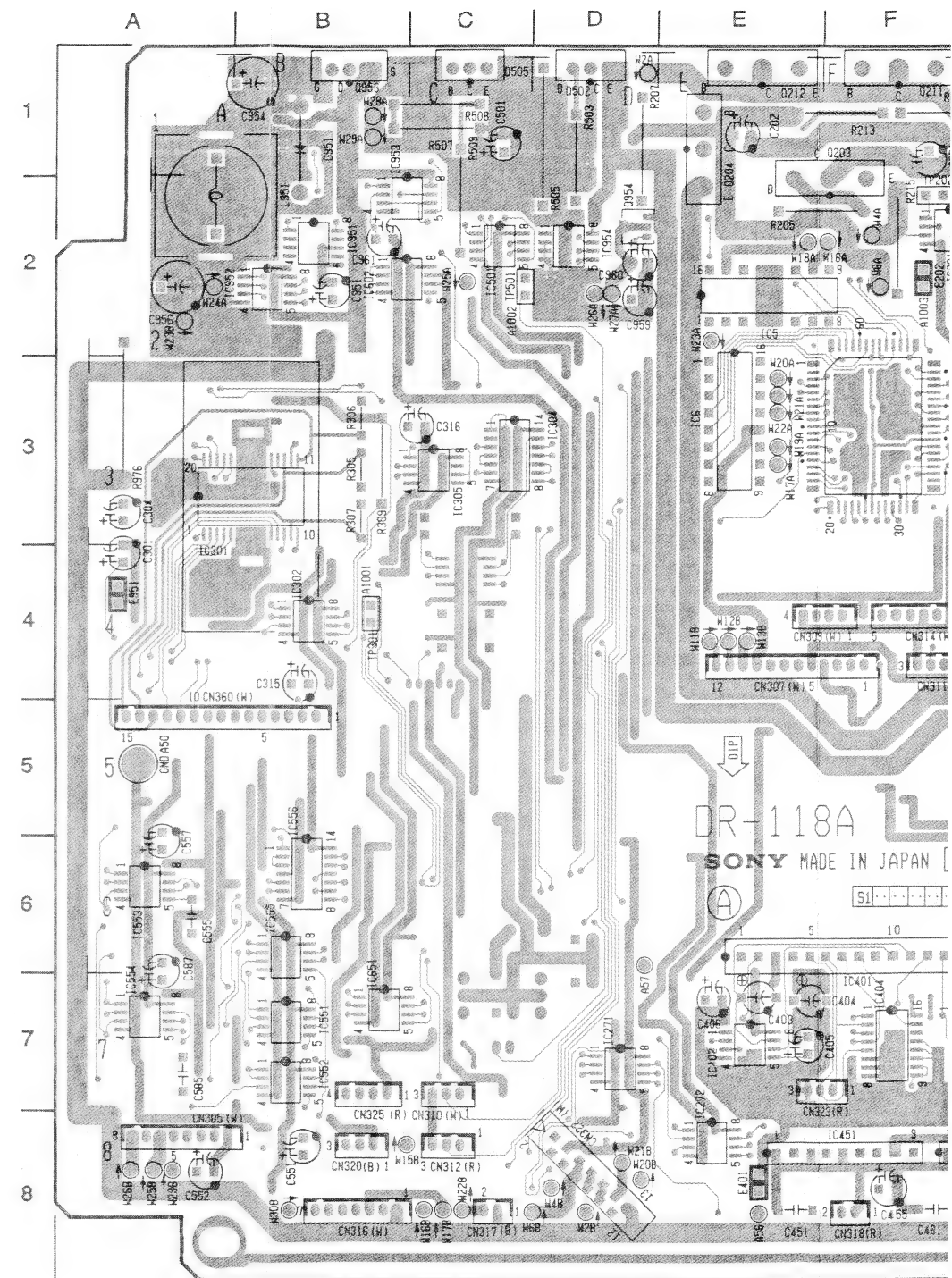


DR-118A 1-640-030-24 B SIDE



DR-118A 1-640-030-24 A SIDE

DR-118A ; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFIER, CTL PB, ADJUST DATA STORAGE



DR-118A 1-640-030-23 B SIDE

15-16(b)

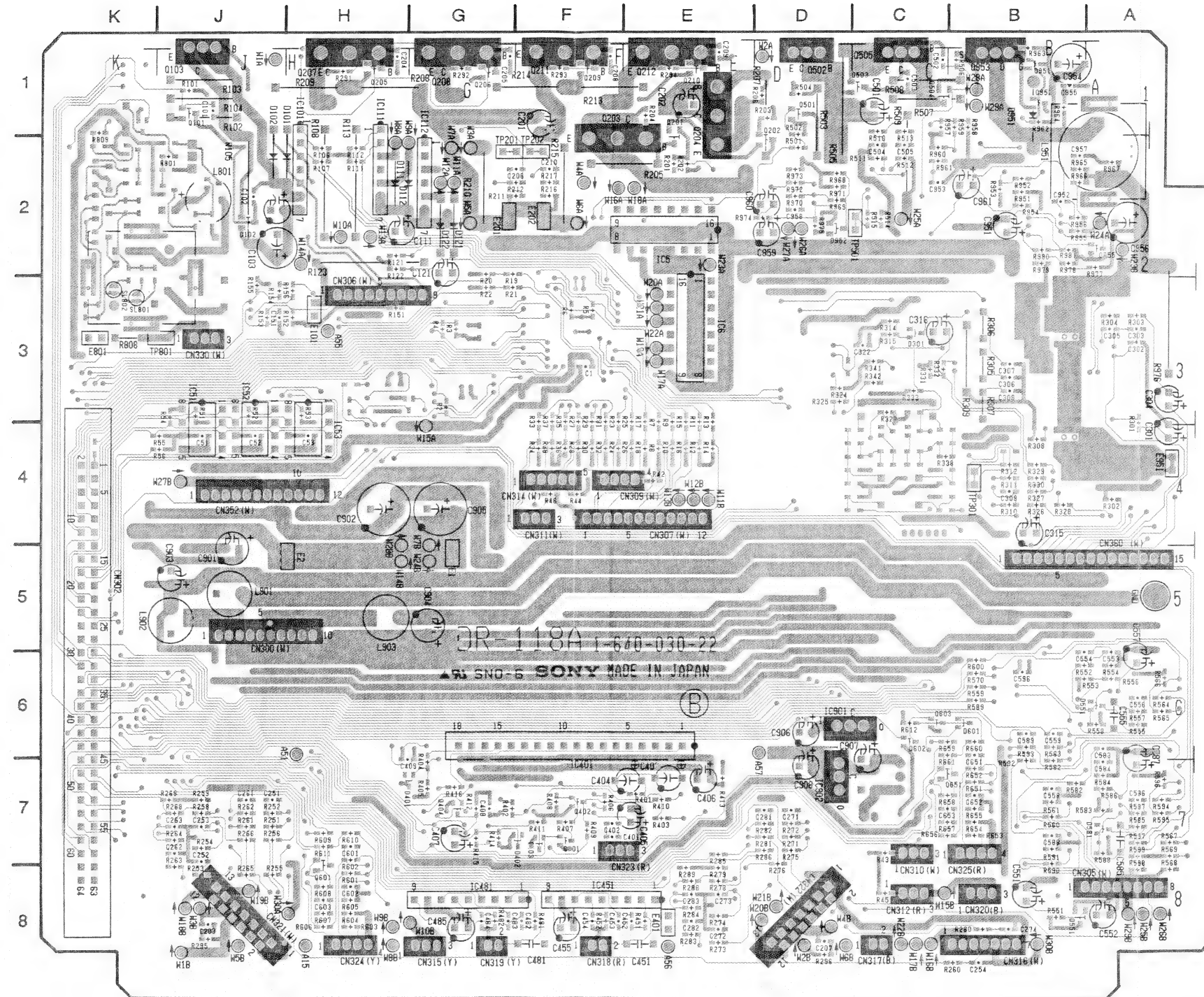
Serial No. (EK); 10001 to 10650

DR-118A ; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFIER, CTL PB, ADJUST DATA STORAGE

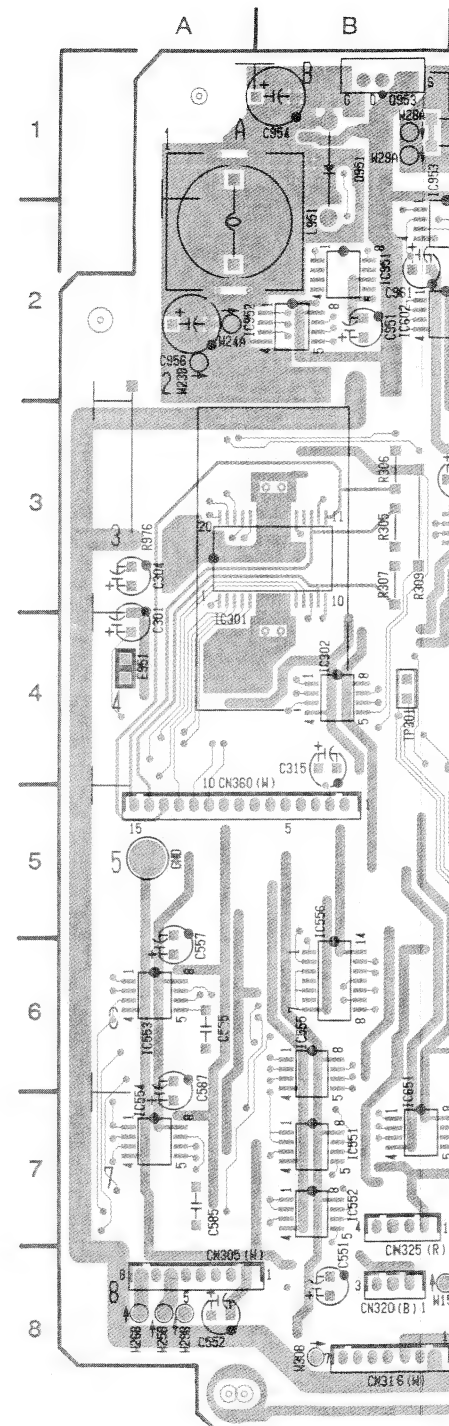
DR-118A (1-640-030-22)

CN 300	J-5	IC 451	F-8
CN 302	K-5	IC 481	G-8
CN 305	A-8	IC 501	C-2
CN 306	H-3	IC 551	B-7
CN 307	E-4	IC 552	B-7
CN 309	E-4	IC 553	A-6
CN 310	C-8	IC 554	A-7
CN 311	F-4	IC 555	B-6
CN 312	C-8	IC 556	B-5
CN 314	F-4	IC 601	H-8
CN 315	G-8	IC 602	B-2
CN 316	B-8	IC 651	B-6
CN 317	C-8	IC 951	B-2
CN 318	F-8	IC 952	A-2
CN 319	G-8	IC 953	B-1
CN 320	B-8	IC 954	D-2
CN 321	J-8		
CN 322	D-8	L 901	J-5
CN 323	E-8	L 902	K-5
CN 324	H-8	L 903	H-5
CN 325	B-8	L 951	B-2
CN 360	A-4		
D 101	H-1	*Q 101	J-1
D 102	J-1	*Q 102	J-2
D 111	H-2	*Q 103	J-1
D 121	G-2	*Q 201	E-1
D 122	G-2	*Q 202	D-2
*D 301	C-3	*Q 203	F-1
*D 401	G-7	*Q 204	E-1
*D 402	F-8	*Q 205	H-1
*D 403	F-8	*Q 206	G-1
*D 551	A-6	*Q 207	H-1
*D 581	A-7	*Q 208	G-1
*D 601	B-6	*Q 209	F-1
*D 951	B-1	*Q 210	E-1
*D 952	D-2	*Q 211	F-1
		*Q 212	E-1
E 1	G-5	*Q 401	F-8
E 2	H-5	*Q 402	F-7
E 101	H-3	*Q 404	G-7
E 201	G-2	*Q 501	D-1
E 401	E-8	*Q 502	D-1
E 951	A-4	*Q 503	C-1
		*Q 504	C-1
		*Q 505	C-1
IC 1	F-3	*Q 551	B-8
IC 5	E-2	*Q 601	H-8
IC 6	E-3	*Q 602	C-6
IC 51	J-3	*Q 603	C-6
IC 52	J-3	*Q 651	B-7
IC 53	H-4	*Q 951	B-1
IC 54	H-3	*Q 952	B-1
IC 101	H-1	*Q 953	B-1
IC 111	H-1	*Q 954	D-2
IC 112	G-1	*Q 955	A-2
IC 151	J-3		
IC 201	F-2	TP 201	G-2
IC 251	J-7	TP 202	F-2
IC 271	D-7	TP 301	B-4
IC 272	E-8	TP 501	C-2
IC 301	A-4	TP 801	J-3
IC 302	B-4		
IC 304	D-3		
IC 305	C-3		
IC 401	F-7		
IC 402	E-7		
IC 403	H-7		
IC 404	F-7		
IC 405	G-7		

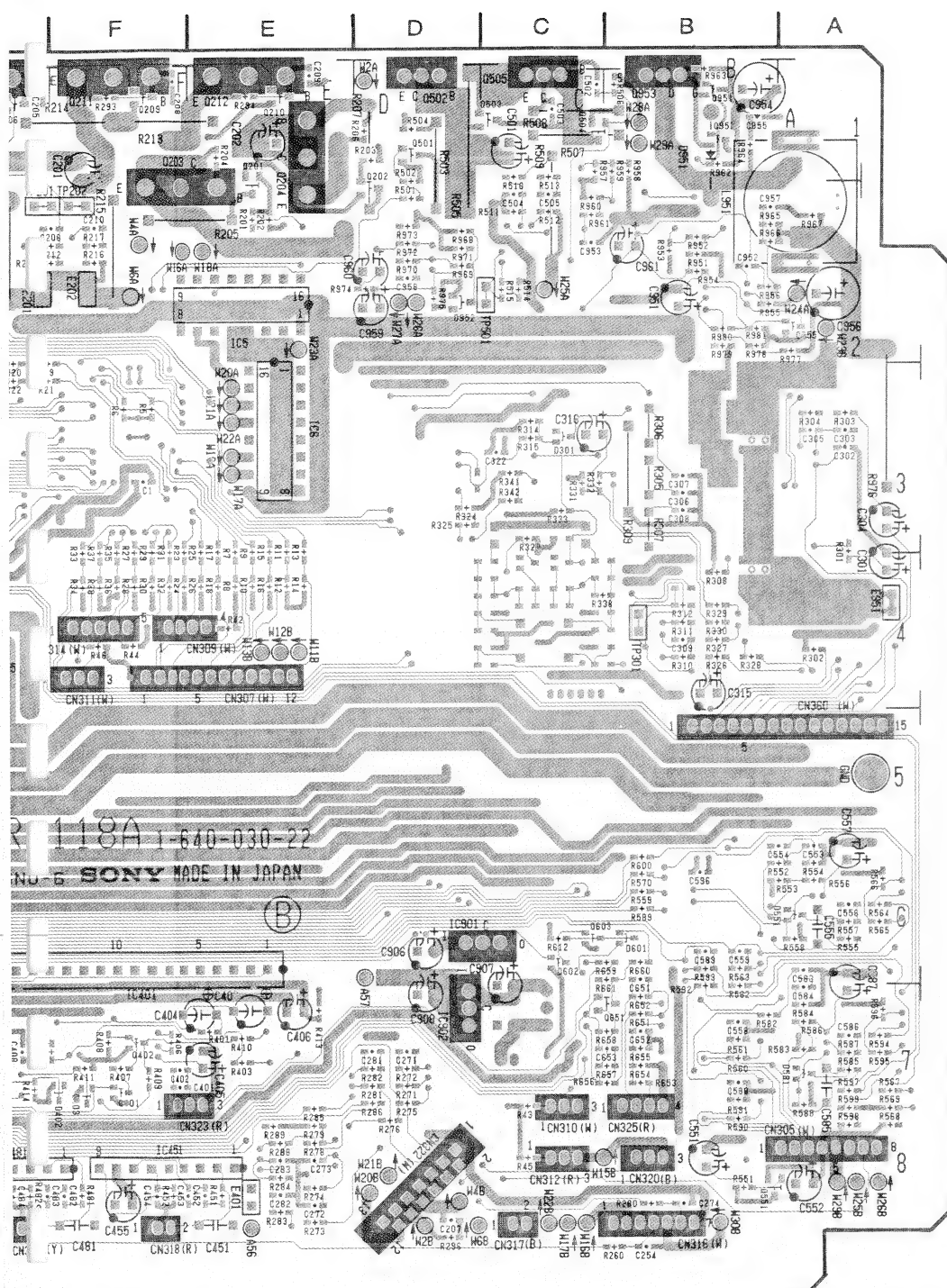
* : B SIDE



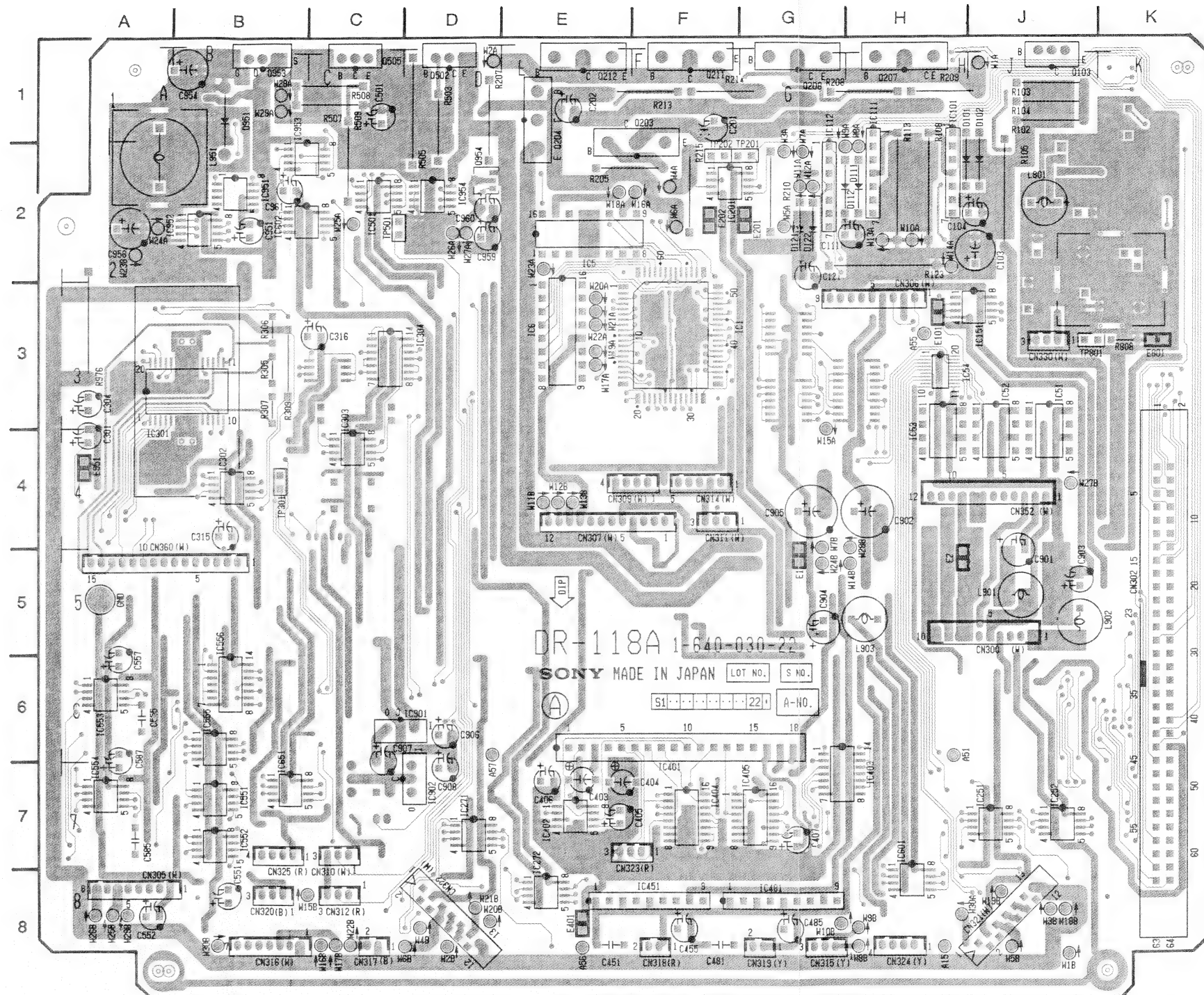
DR-118A 1-640-030-22 B SIDE



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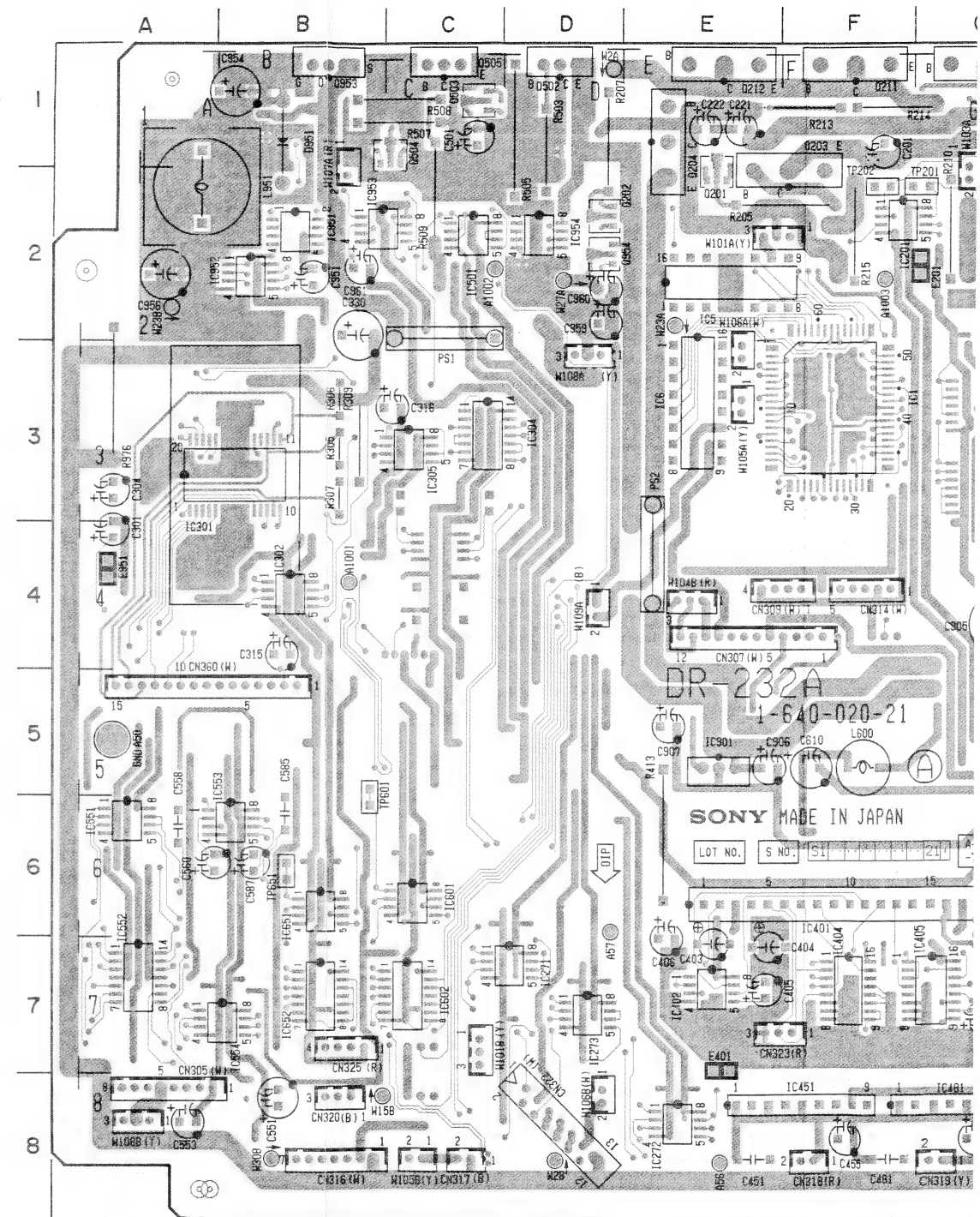


DR-118A 1-640-030-22 B SIDE



DR-118A 1-640-030-22 A SIDE

DR-232A ; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFIER,
CTL PB, ADJUST DATA STORAGE



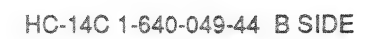
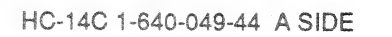
DR-232A 1-640-020-21 B SIDE

* : B SIDE

HC-14C HC-14C

HC-14C (1-640-049-44)

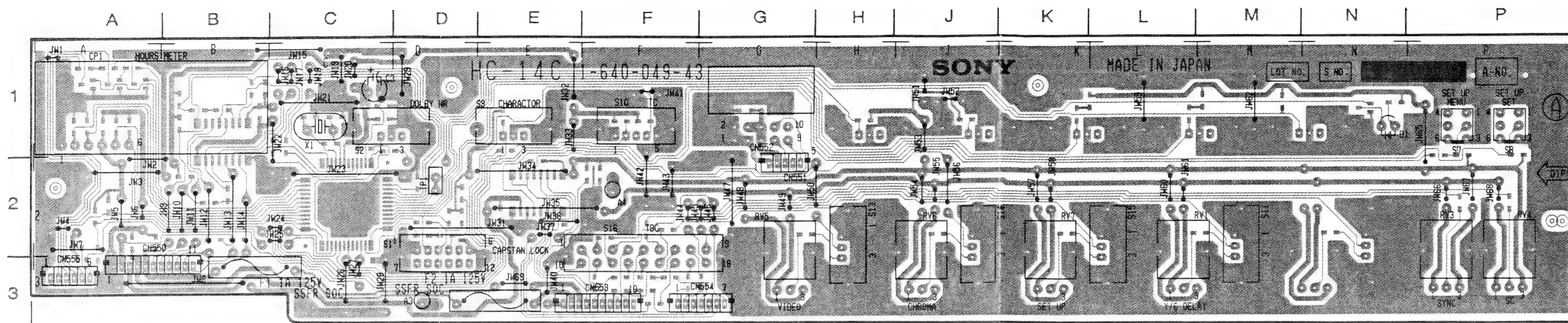
* : B SIDE



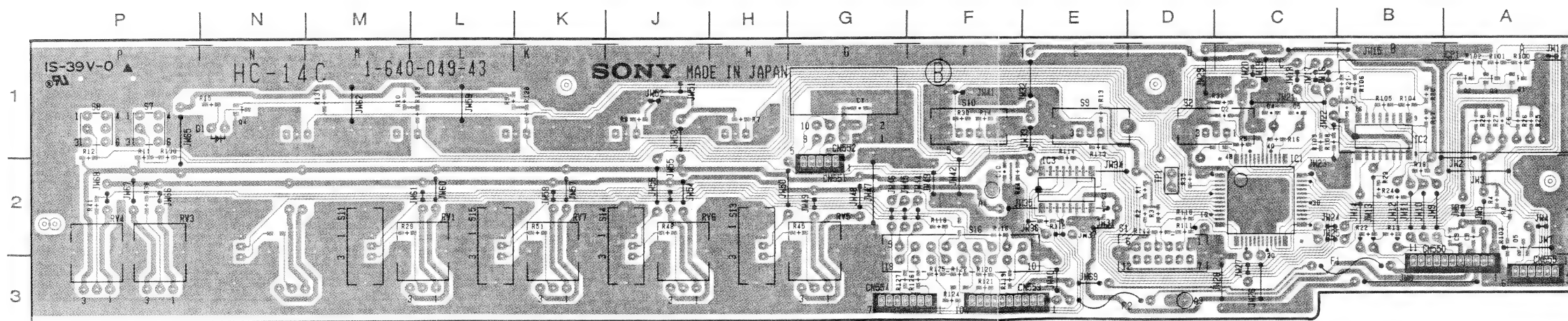
Serial No. (EK); 11151 to 14285
Serial No. (UC); 10001 to 10010

HC-14C HC-14C

HC-14C ; SUB-CONTROL PANEL



HC-14C 1-640-049-43 A SIDE



HC-14C 1-640-049-43 B SIDE

HC-14C (1-640-049-43)

CN 550 A-3
CN 551 G-2
CN 552 G-2
CN 553 F-3
CN 554 G-3
CN 555 A-3

CP 1 A-1
D 1 N-1
F 1 B-3
F 2 E-3

*IC 1 C-2
*IC 2 B-1
*IC 3 E-2

*Q 1 A-1
*Q 2 A-1
*Q 3 A-1
*Q 4 N-1
*Q 5 A-2

RV 1 L-2
RV 3 P-2
RV 4 P-2
RV 5 G-2
RV 6 J-2
RV 7 K-2

S 1 D-2
S 2 C-1
S 7 P-1
S 8 P-1
S 9 E-1
S 10 F-1
S 11 M-2
S 13 H-2
S 14 J-2
S 15 L-2
S 16 F-2

TP 1 D-2
X 1 C-1

* : B SIDE

Serial No.(EK);10151 to 11150

HC-14C ; SUB-CONTROL PANEL

HC-14C (1-640-049-42)

- CN 550 A-3
- CN 551 G-2
- CN 552 G-2
- CN 553 F-3
- CN 554 G-3
- CN 555 A-3

- CP 1 A-1
- D 1 N-1
- F 1 E-3
- F 2 E-3

- *IC 1 C-2
- *IC 2 B-1
- *IC 3 E-2

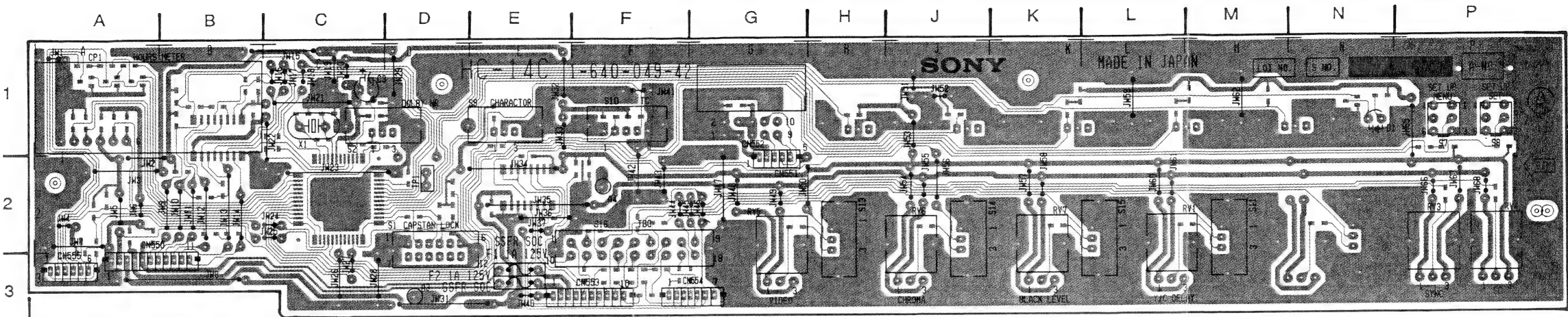
- *Q 1 A-1
- *Q 2 A-1
- *Q 3 A-1
- *Q 4 N-1
- *Q 5 A-2

- RV 1 L-2
- RV 3 P-2
- RV 4 P-2
- RV 5 G-2
- RV 6 J-2
- RV 7 K-2

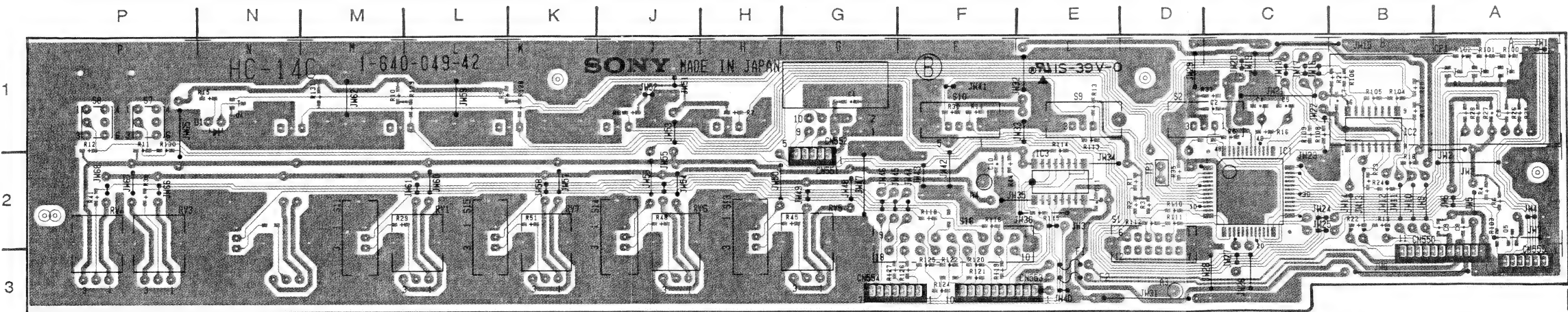
- S 1 D-2
- S 2 C-1
- S 7 P-1
- S 8 P-1
- S 9 E-1
- S 10 F-1
- S 11 M-2
- S 13 H-2
- S 14 J-2
- S 15 L-2
- S 16 F-2

- TP 1 D-2
- X 1 C-1

* : B SIDE



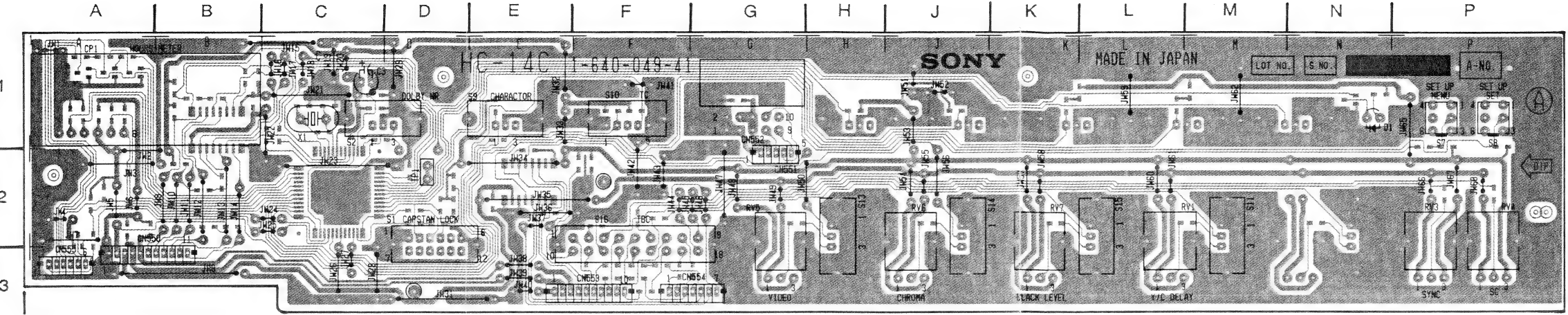
HC-14C 1-640-049-42 A SIDE



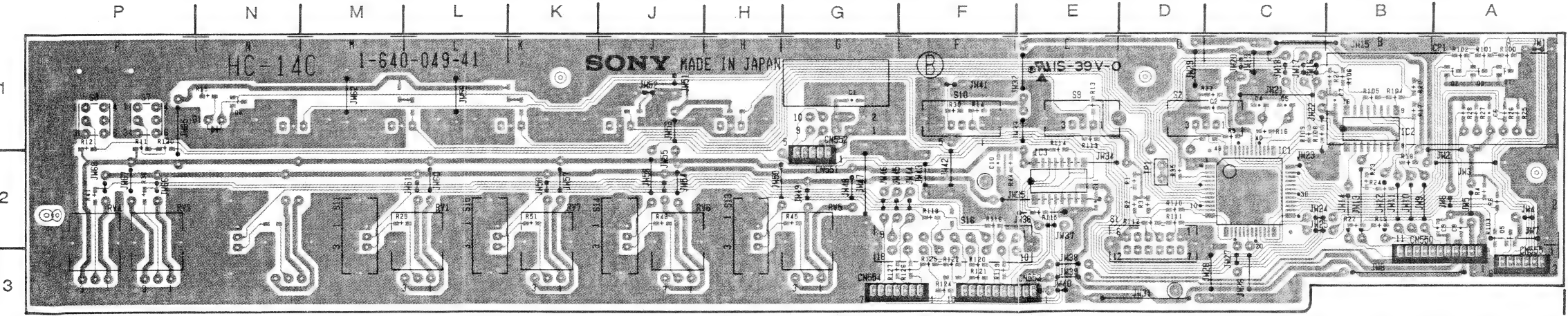
HC-14C 1-640-049-42 B SIDE

Serial No.(EK);10001 to 10150

HC-14C ; SUB-CONTROL PANEL



HC-14C 1-640-049-41 A SIDE



HC-14C 1-640-049-41 B SIDE

HC-14C (1-640-049-41)

CN 550 A-3
CN 551 G-2
CN 552 G-2
CN 553 F-3
CN 554 G-3
CN 555 A-3

CP 1 A-1

D 1 N-1

*IC 1 C-2
*IC 2 B-1
*IC 3 E-2

*Q 1 A-1
*Q 2 A-1
*Q 3 A-1
*Q 4 N-1
*Q 5 A-2

RV 1 L-2
RV 3 P-2
RV 4 P-2
RV 5 G-2
RV 6 J-2
RV 7 K-2

S 1 D-2
S 2 C-1
S 7 P-1
S 8 P-1
S 9 E-1
S 10 F-1
S 11 M-2
S 13 H-2
S 14 J-2
S 15 L-2
S 16 F-2

TP 1 D-2

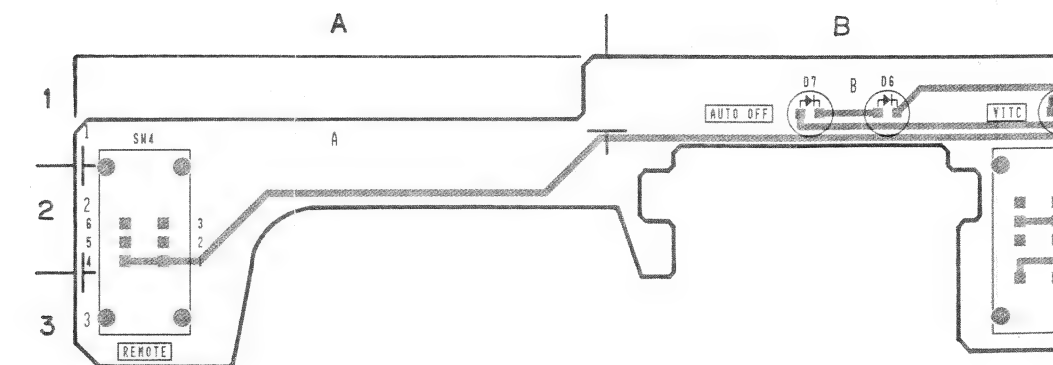
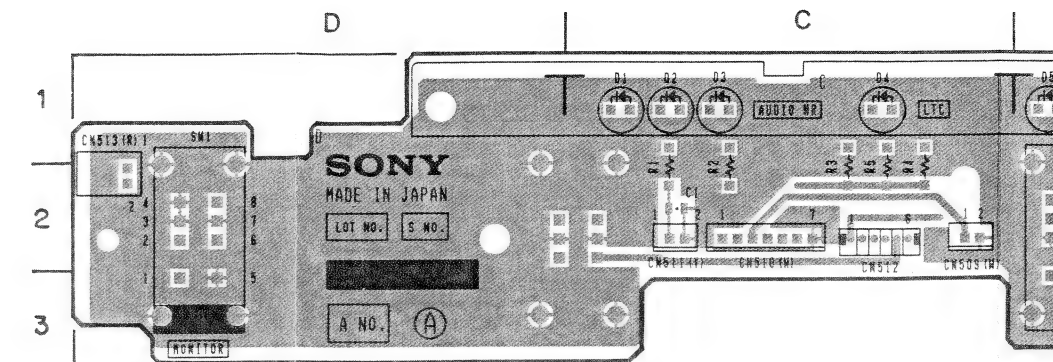
X 1 C-1

* : B SIDE

SW-444A ; SELECT SWITCH, INDICATOR, RF/VIDEO LEVEL METER

SW-444A (1-640-043-21)

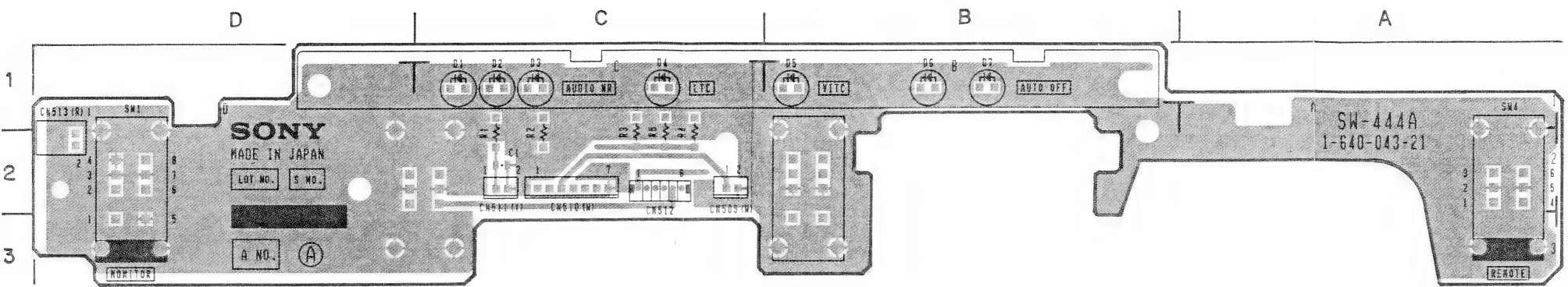
D 1	C-1
D 2	C-1
D 3	C-1
D 4	C-1
D 5	B-1
D 6	B-1
D 7	B-1



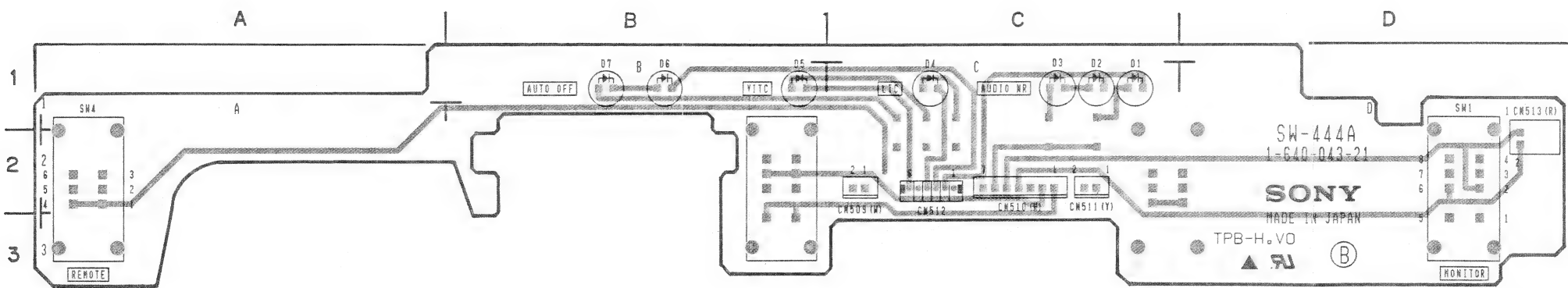
SW-444A ; SELECT SWITCH, INDICATOR, RF/VIDEO LEVEL METER

SW-444A (1-640-043-21)

- D 1 C-1
- D 2 C-1
- D 3 C-1
- D 4 C-1
- D 5 B-1
- D 6 B-1
- D 7 B-1



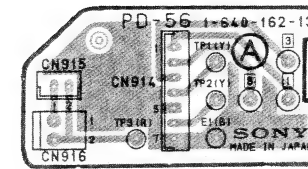
SW-444A 1-640-043-21 A SIDE



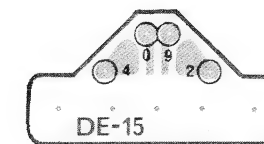
SW-444A 1-640-043-21 B SIDE

RM-82; REEL MOTOR
 PTC-42; CASSETTE SIZE SENSOR
 PTC-43; REC INHIBIT SENSOR
 PTC-49; THREADING MOTOR
 PTC-54; THREADING FG
 PTC-55; CASSETTE INFORMATION SENSOR (TAPE THICKNESS, REEL HUB DIAMETER, METAL/OXIDE)
 PD-56; PINCH/CLEANING SOLENOID CONNECTION, REEL FG CHECK
 DS-31; CONDENSATION SENSOR
 TR-73; S/T TENSION SENSOR
 DE-15; REEL FG
 SE-186; REEL FG
 LP-57; CASSETTE ILLUMINATION
 PC-62; CASSETTE IN/LARGE CASSETTE SENSOR
 CL-25; CASSETTE COMPARTMENT (CASSETTE LOADING BEGIN/NEAR-END SENSOR, LP-57 CONNECTION, CASSETTE LOADING MOTOR)
 AC-133; AC LINE FILTER, FUSE

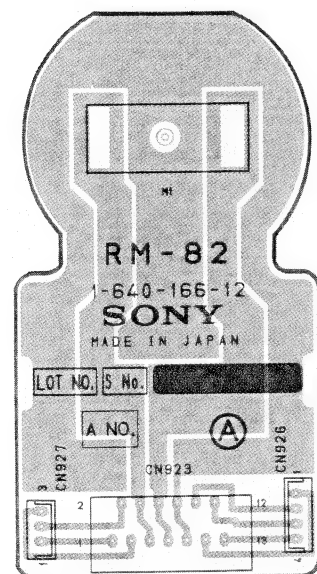
Serial No.(EK); 10001 to 1525
 Serial No.(UC); 10001 to 1000



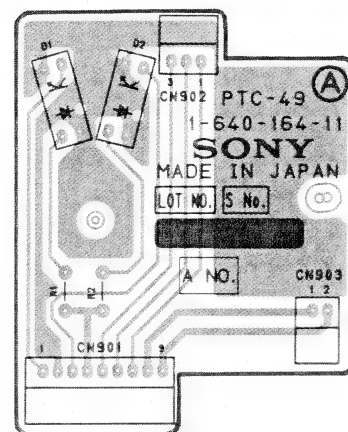
PD-56 1-640-162-13 A SIDE



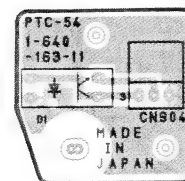
DE-15 1-622-606-12 A SIDE



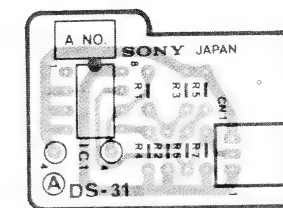
RM-82 1-640-166-12 A SIDE



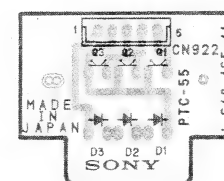
PTC-49 1-640-164-11 A SIDE



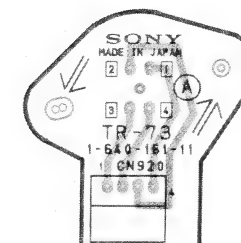
PTC-54 1-640-163-11 A SIDE



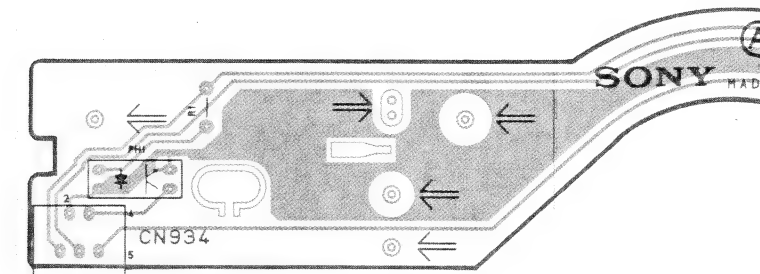
DS-31 1-640-167-11 A SIDE



PTC-55 1-640-165-11 A SIDE



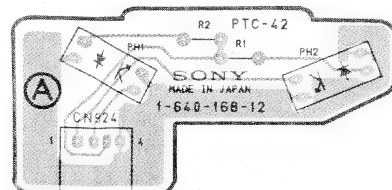
TR-73 1-640-161-11 A SIDE



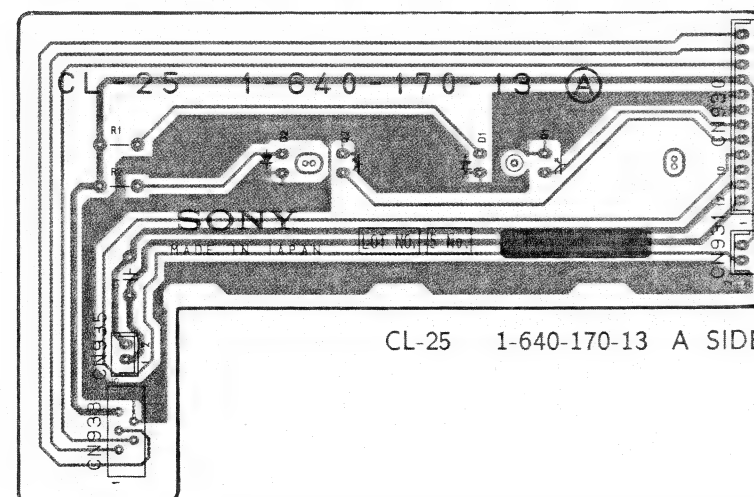
Serial No.(EK); 12851 and higher
 Serial No.(UC); 10001 and higher

Serial No.(EK); 10001 to 12850

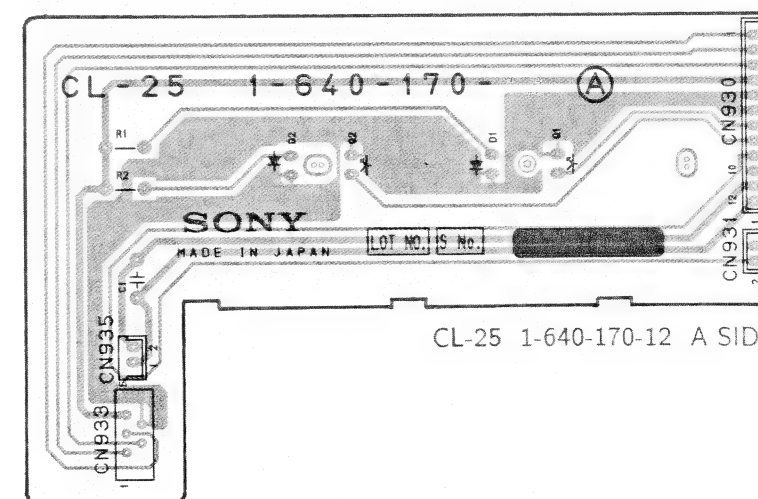
Serial No.(EK); 1
 Serial No.(UC); 1



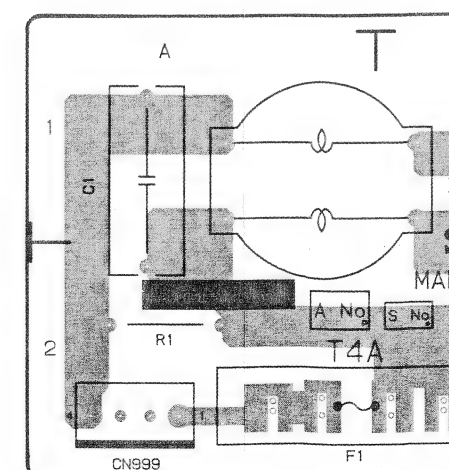
PTC-42 1-640-168-12 A SIDE



CL-25 1-640-170-13 A SIDE



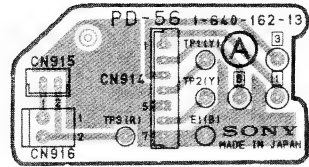
CL-25 1-640-170-12 A SIDE



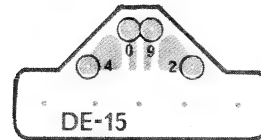
AC-1

Serial No.(EK); 10001 to 15255
Serial No.(UC); 10001 to 10010

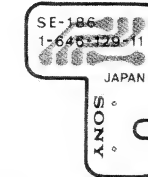
Serial No.(EK); 15256 and higher
Serial No.(UC); 10011 and higher



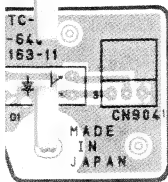
PD-56 1-640-162-13 A SIDE



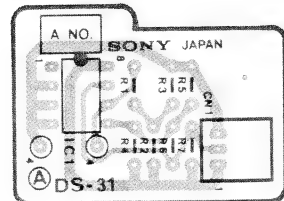
DE-15 1-622-606-12 A SIDE



SE-186 1-646-129-11 B SIDE



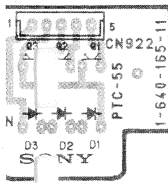
TC-54 1-640-163-11 A SIDE



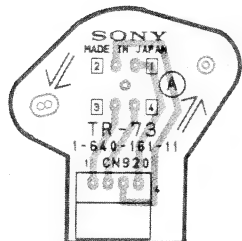
DS-31 1-640-167-11 A SIDE



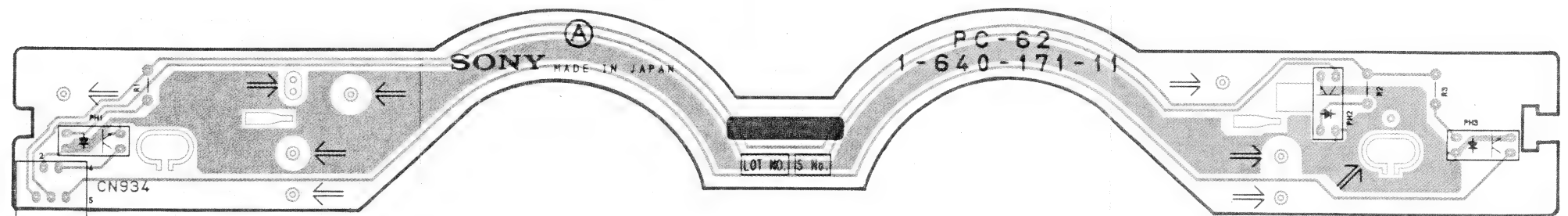
LP-57 1-640-172-11 A SIDE



PTC-55 1-640-165-11 A SIDE

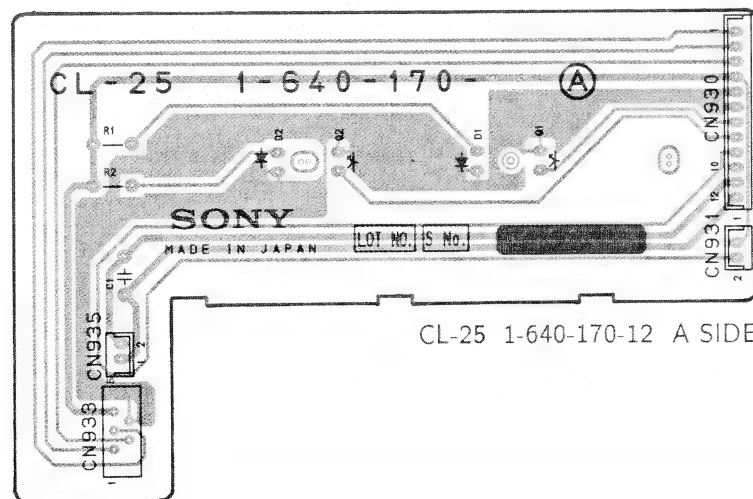


TR-73 1-640-161-11 A SIDE



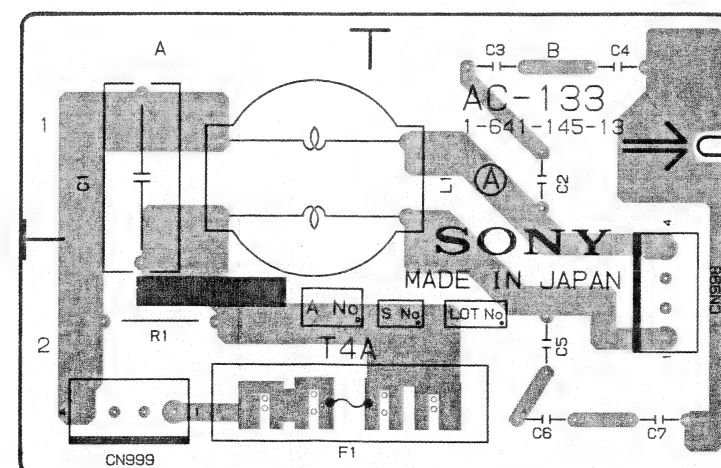
PC-62 1-640-171-11 A SIDE

Serial No.(EK); 10001 to 12850



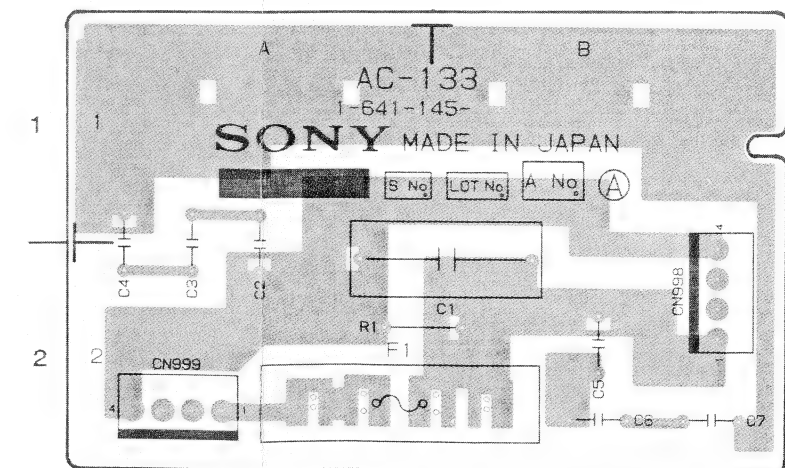
CL-25 1-640-170-12 A SIDE

Serial No.(EK); 14586 and higher
Serial No.(UC); 10011 and higher



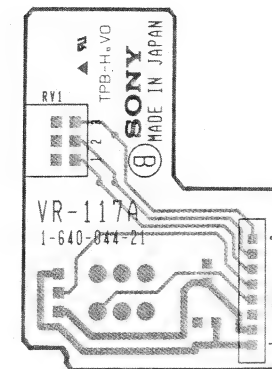
AC-133 1-641-145-13 A SIDE

Serial No.(EK); 10001 to 14585
Serial No.(UC); 10001 to 10010

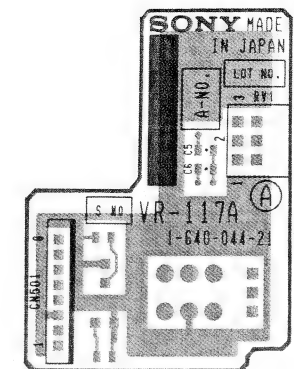


AC-133 1-641-145-12 A SIDE

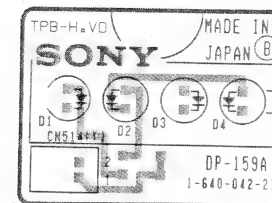
VR-117 ; VIDEO INPUT LEVEL/TRACKING CONTROL
 CP-159 ; RF/VIDEO METER BACK LIGHT
 RM-93 ; TBC/9P REMOTE CONNECTOR



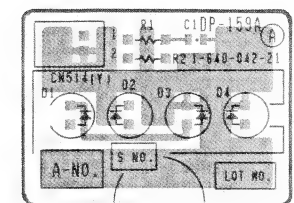
VR-117A 1-640-044-21 B SIDE



VR-117A 1-640-044-21 A SIDE

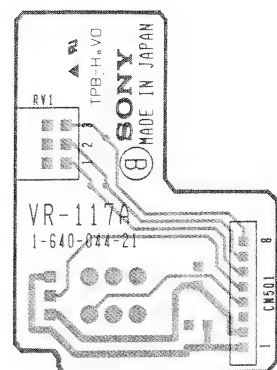


DP-159A 1-640-042-21 B SIDE

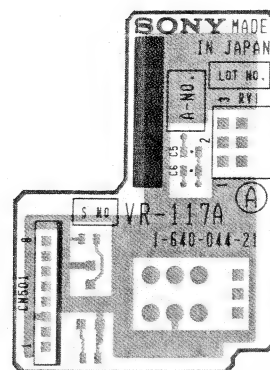


DP-159A 1-640-042-21 A SIDE

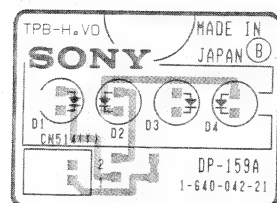
VR-117 ; VIDEO INPUT LEVEL/TRACKING CONTROL
CP-159 ; RF/VIDEO METER BACK LIGHT
RM-93 ; TBC/9P REMOTE CONNECTOR



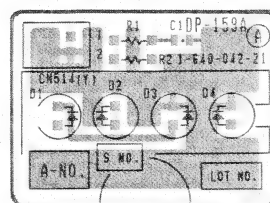
VR-117A 1-640-044-21 B SIDE



VR-117A 1-640-044-21 A SIDE

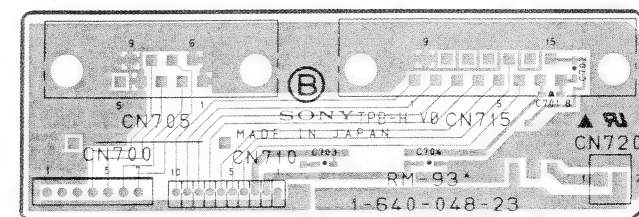


DP-159A 1-640-042-21 B SIDE

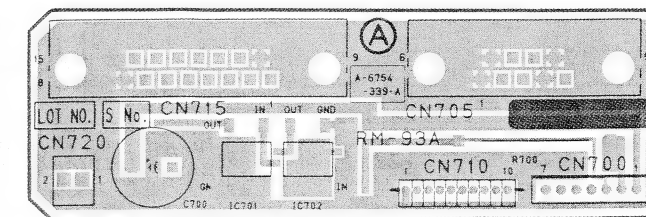


DP-159A 1-640-042-21 A SIDE

Serial No.(EK); 15256 and higher
Serial No.(UC); 10010 and higher

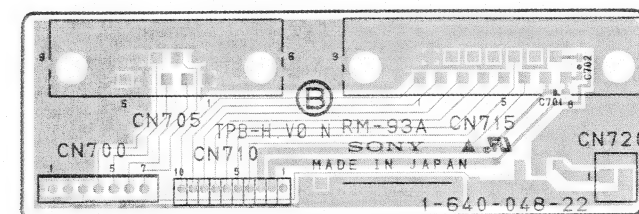


RM-93A 1-640-048-23 B SIDE

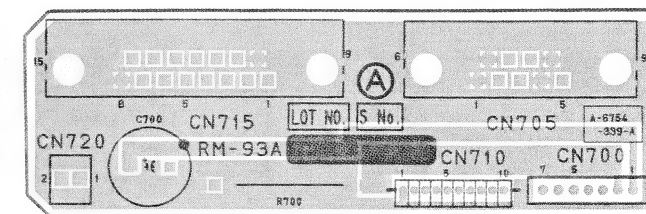


RM-93A 1-640-048-23 A SIDE

Serial No.(EK); 14586 to 15255
Serial No.(UC); 10001 to 10010

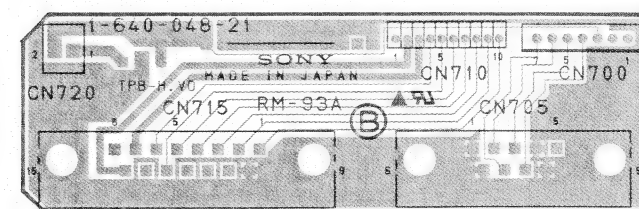


RM-93A 1-640-048-22 B SIDE

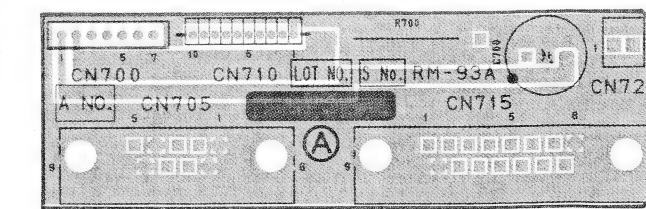


RM-93A 1-640-048-22 A SIDE

Serial No.(EK); 10001 to 14585

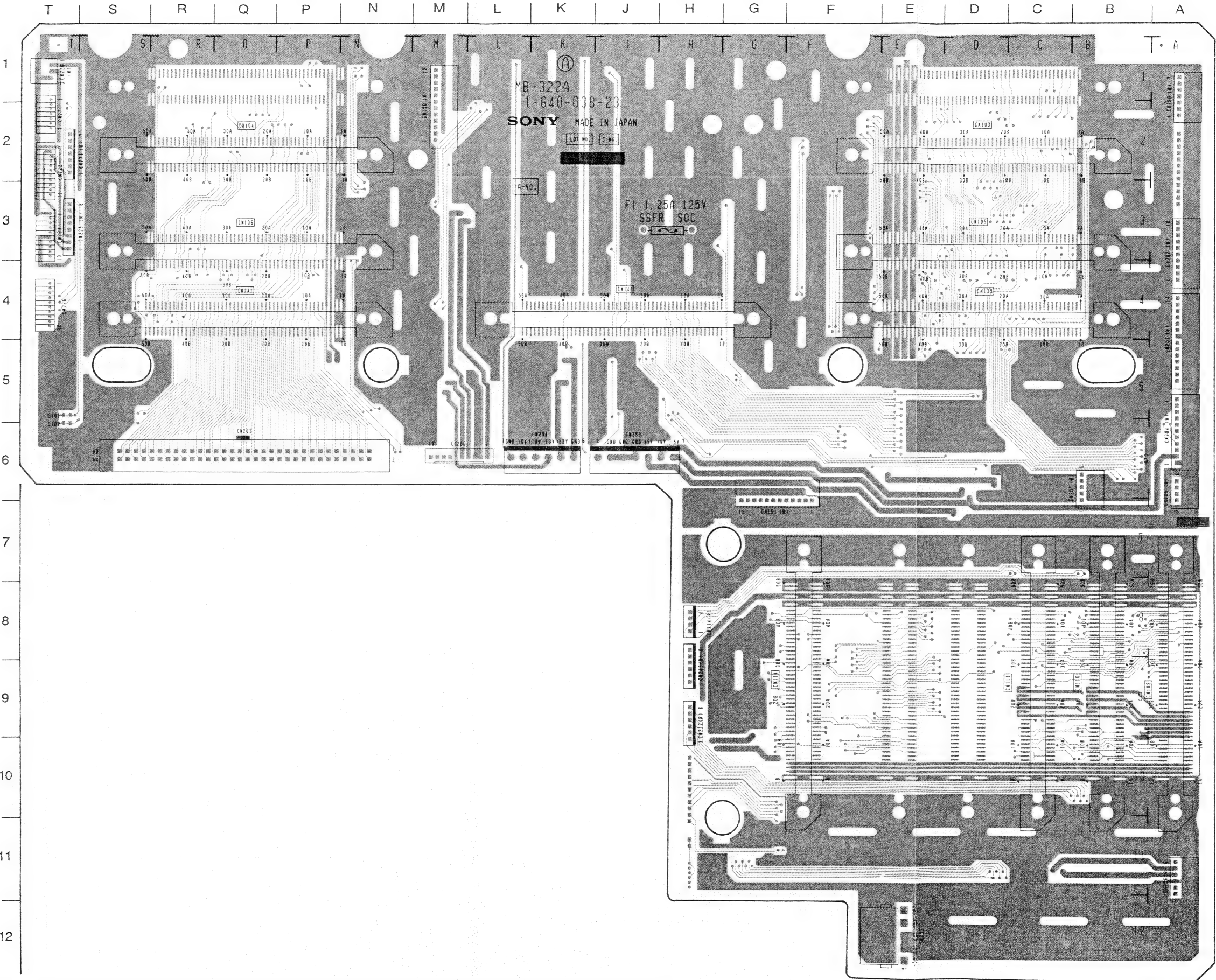


RM-93A 1-640-048-21 B SIDE



RM-93A 1-640-048-21 A SIDE

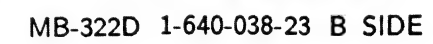
MB-322D ; MOTHER BOARD



MB-322D 1-640-038-23 A SIDE

MB-322D (1-640-038-23)

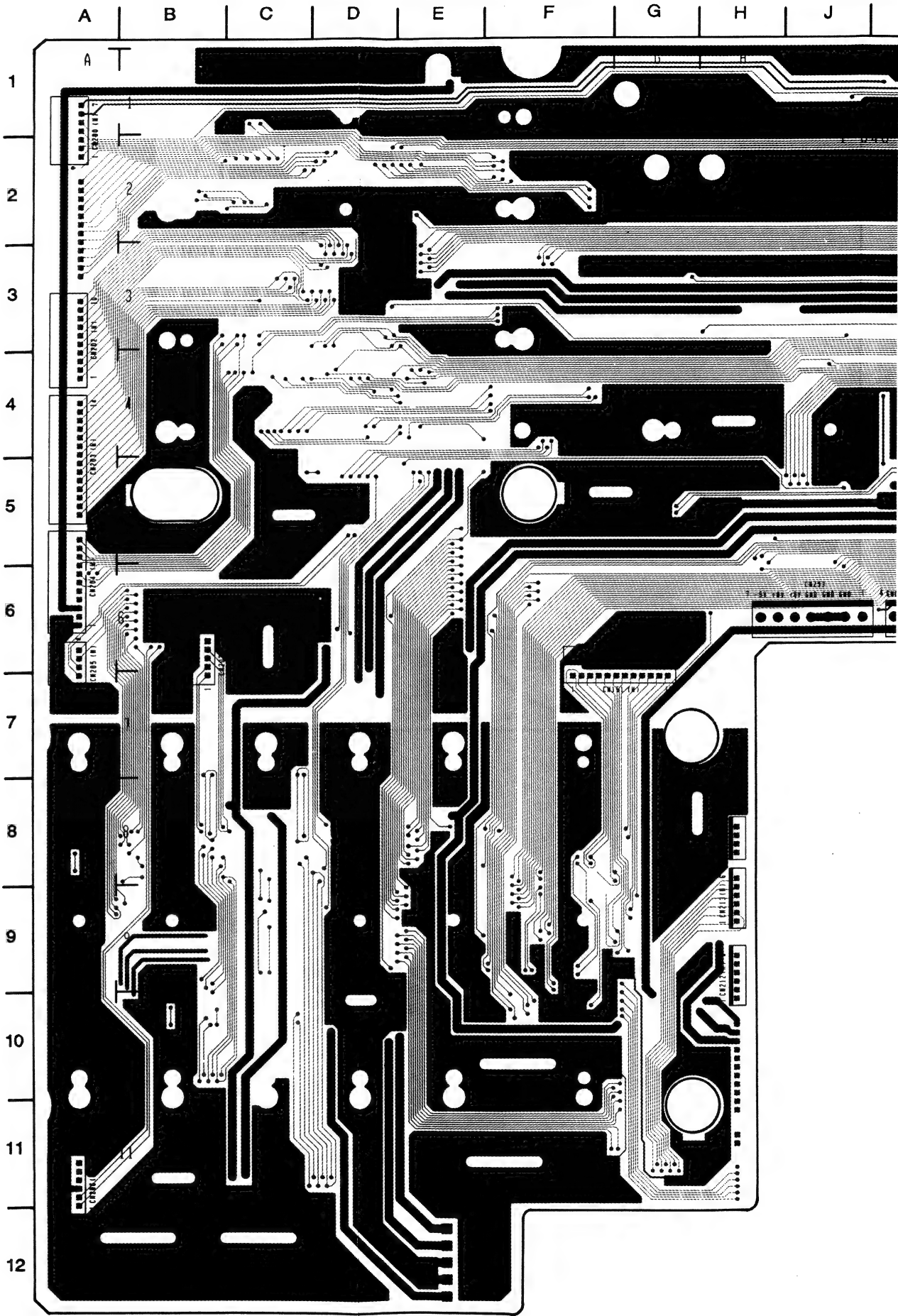
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CN 105	D-3
CN 106	Q-3
CN 109	A-9
CN 110	B-9
CN 111	C-9
CN 114	G-9
CN 139	D-4
CN 140	J-4
CN 141	Q-4
CN 150	M-2
CN 151	G-7
CN 200	A-2
CN 202	A-4
CN 203	A-5
CN 204	A-6
CN 205	A-6
CN 206	A-11
CN 207	B-6
CN 212	H-9
CN 213	H-9
CN 214	H-8
CN 220	T-1
CN 221	T-2
CN 222	T-2
CN 223	T-3
CN 224	S-2
CN 225	S-3
CN 260	M-6
CN 262	Q-6
CN 292	E-12
CN 293	J-6
CN 294	K-6



MB-322A ; MOTHER BOARD

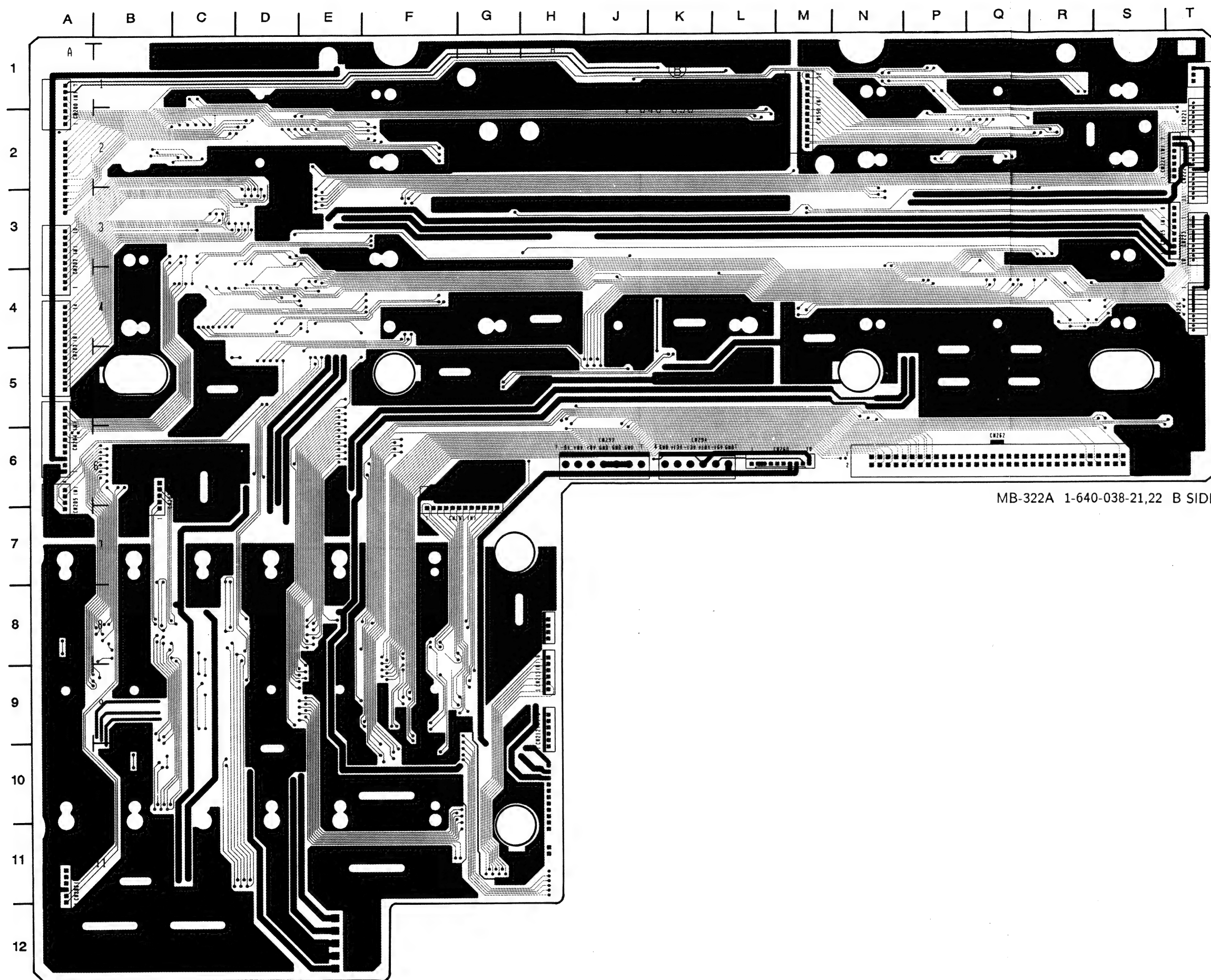
MB-322A (1-640-038-21,22)

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CN 104	Q-2
CN 105	D-3
CN 106	Q-3
CN 109	A-9
CN 110	B-9
CN 111	C-9
CN 114	F-9
CN 139	D-4
CN 140	J-4
CN 141	Q-4
CN 150	M-2
CN 151	G-6
CN 200	A-1
CN 202	A-3
CN 203	A-4
CN 204	A-6
CN 205	A-6
CN 206	A-11
CN 207	B-6
CN 212	H-9
CN 213	H-9
CN 214	H-8
CN 220	T-1
CN 221	T-2
CN 223	T-3
CN 224	T-2
CN 225	T-3
CN 226	T-4
CN 260	M-6
CN 262	Q-6
CN 292	E-12
CN 293	J-6
CN 294	K-6
F 1	H-3



640-038-21,22)

D-1
Q-2
Q-3
Q-4
A-5
B-6
C-7
F-8
D-9
J-10
Q-11
M-12
G-13
A-14
A-15
A-16
A-17
A-18
B-19
H-20
H-21
H-22
T-23
T-24
T-25
T-26
T-27
M-28
Q-29
E-30
J-31
K-32
H-33



MB-322A 1-640-038-21,22 B SIDE

MB-322D ; MOTHER BOARD

MB-322D (1-640-038-23)

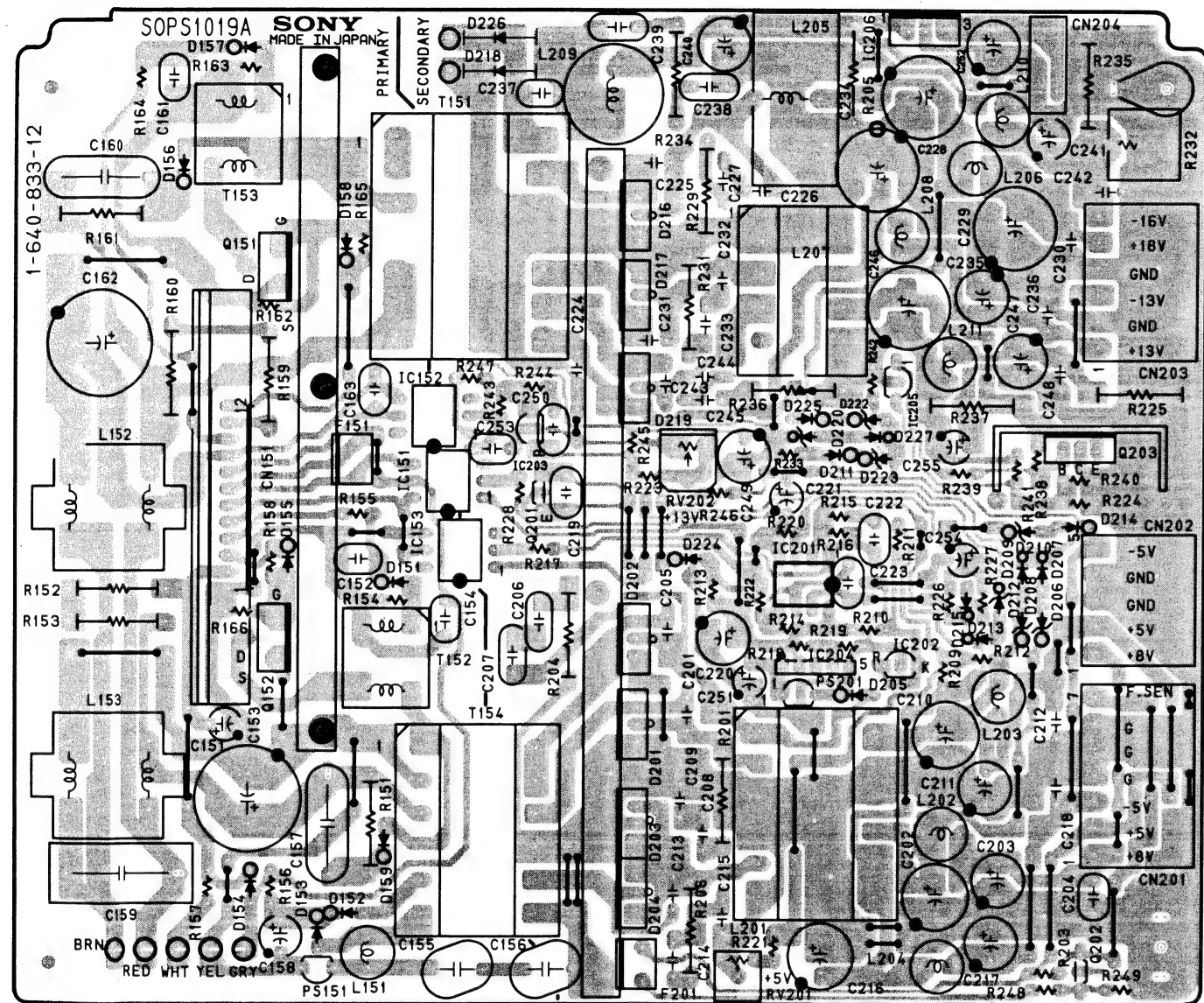
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CN 106	Q-3
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CN 111	C-9
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CN 139	D-4
CN 140	J-4
CN 141	Q-4
CN 150	M-2
CN 151	G-7
CN 200	A-2
CN 202	A-4
CN 203	A-5
CN 204	A-6
CN 205	A-6
CN 206	A-11
CN 207	B-6
CN 212	H-9
CN 213	H-9
CN 214	H-8
CN 220	T-1
CN 221	T-2
CN 222	T-2
CN 223	T-3
CN 224	S-2
CN 225	S-3
CN 260	M-6
CN 262	Q-6
CN 292	E-12
CN 293	J-6
CN 294	K-6

MB-322D ; MOTHER BOARD

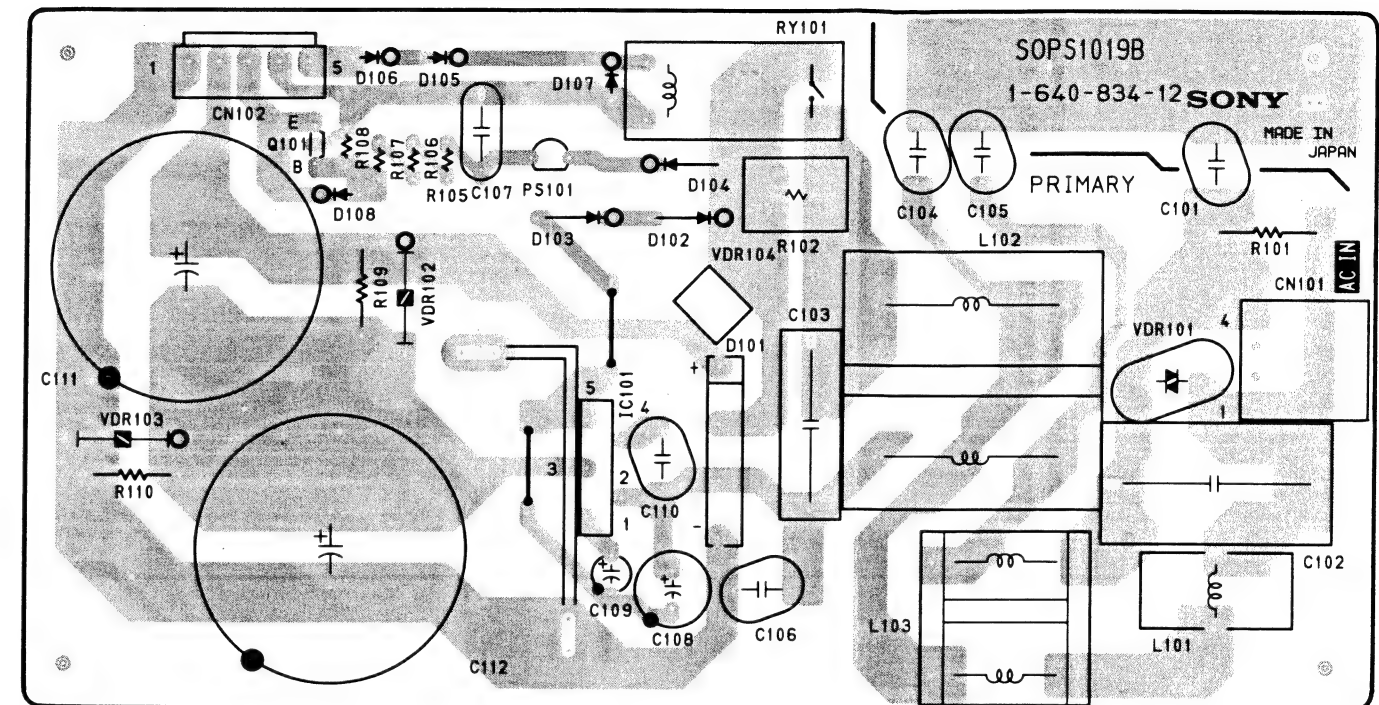
MB-322D (1-640-038-23)

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CN 110	B-9
CN 111	C-9
CN 114	G-9
CN 139	D-4
CN 140	J-4
CN 141	Q-4
CN 150	M-2
CN 151	G-7
CN 200	A-2
CN 202	A-4
CN 203	A-5
CN 204	A-6
CN 205	A-6
CN 206	A-11
CN 207	B-6
CN 212	H-9
CN 213	H-9
CN 214	H-8
CN 220	T-1
CN 221	T-2
CN 222	T-2
CN 223	T-3
CN 224	S-2
CN 225	S-3
CN 260	M-6
CN 262	Q-6
CN 292	E-12
CN 293	J-6
CN 294	K-6

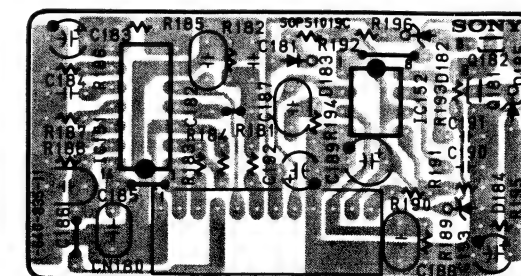
SOPS1019A ; SWITCHING REGULATOR
SOPS1019B ; SWITCHING REGULATOR
SOPS1019C : SWITCHING REGULATOR



SOPS1019A



SOPS1019B



SOPS1019C

222065

SONY

VIDEOCASSETTE PLAYER

PVW-2600P

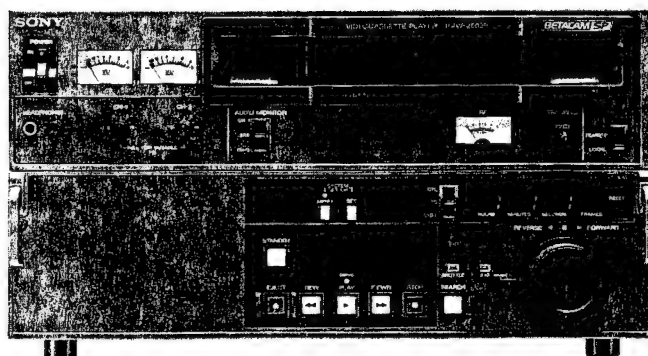
SERVICE MANUAL

Vol.2 1st Edition (Revised 1)

Serial No.10001 and Higher
(EK)

Serial No.10001 and Higher
(USA CANADA)

BETACAM SP
2000PRO



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SECTION 16 SCHEMATIC DIAGRAM

CIRCUIT CONFIGURATION

The circuit information is provided below.

System	Board	Circuit Function
VIDEO	RP-57AP	RF PB Amplifier
	VP-33AP	Y/C PB Process (PB RF EQ, Demod., Encode, Y-RF Envelope DET), Composite Out Driver
	DO-29	Drop Out Detector
	TBC-18P	Time Base Corrector, CTDM (Expand)
	CP-166A	Output Connector, Component Out Driver
AUDIO	VR-117A	Tracking Control
	AU-148AP	CH-1 PB Process, Dolby System
	AU-149AP	CH-2 PB Process, Dolby System
	AU-150A	Mode Control, LTC PB
	CP-167A	Output Connector, Line Out Driver
SERVO/ SYSTEM CONTROL/ TIME CODE	DP-138A	Audio Level Meter Back Light
	VR-116A	PB Level Control, Headphone Volume Control
	MA-44A	Meter Driver, Headphone Amplifier
	SS-48P	System Control, Servo System Main, Time Code Reader, Character Generator
	KY-210A	Keyboard
	DP-139A	Time Code Display
	DR-118A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG Amplifier, CTL PB, Adjust Data Storage
	DR-232A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG Amplifier, CTL PB, Adjust Data Storage
	CL-25	Cassette Compartment (Cassette Loading Begin/Near-end Sensor, LP-57 Connection Cassette Loading Motor)
	DE-15	Reel FG
	DS-31	Condensation Sensor
	HC-14C	Sub-control Panel
	PC-62	Cassette In/Large Cassette Sensor
	PD-56	Pinch/Cleaning Solenoid Connection, Reel FG Check
	PTC-39	Search Dial
	PTC-42	Cassette Size Sensor
	PTC-49	Threading Motor
	PTC-54	Threading FG
	PTC-55	Cassette Information Sensor (Tape Thickness, Reel Hub Diameter, Metal/Oxide)
	RM-82	Reel Motor
	RM-93A	TBC/9P Remote Connector
	* SE-186	Reel FG
	SW-444A	Select Switch, Indicator, RF/Video Level Meter
	TR-73	S/T Tension Sensor
OTHERS	AC-133	AC Line Filter, Fuse
	DP-159A	RF/Video Meter Back Light
	LP-57	Cassette Illumination
	MB-322A/322D	Mother Board
	SOPS1019A	Switching Regulator
	SOPS1019B	Switching Regulator
	SOPS1019C	Switching Regulator

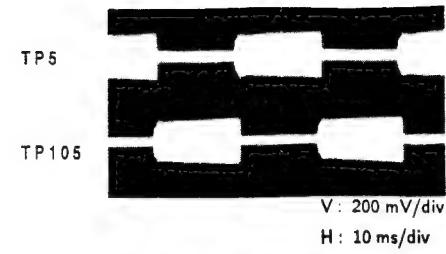
* SE-186 Board : As to serial No. (EK) 15836 and higher, (uc) 10011 and higher the board has been changed from DE-15 to SE-186.

	Board	Page
A	AC-133	16-53
	AU-148AP	16-22
	AU-149AP	16-23
	AU-150A	16-24
C	CL-25	16-53
	CP-166A	16-21
	CP-167A	16-25
D	DE-15	16-53
	DO-29	16-14
	DP-138A	16-26
	DP-139A	16-37
	DP-159A	16-54
	DR-118A	38-38
	DR-232A	16-42
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H	HC-14AC	16-46
K	KY-210A	16-37
L	LP-57	16-53
M	MA-44A	16-26
	MB-322A/322D	16-48
P	PC-62	16-53
	PD-56	16-53
	PTC-39	16-37
	PTC-42	16-53
	PTC-49	16-53
	PTC-54	16-53
R	PTC-55	16-53
	RM-82	16-53
	RM-93A	16-54
S	RP-57AP	16-2
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	SOPS1019B	16-55
	SOPS1019C	16-55
	SS-48P	16-28
T	SW-444A	16-47
	TBC-18P	16-16
V	TR-73	16-53
	VP-33AP	16-6
	VR-116A	16-26
	VR-117A	16-54

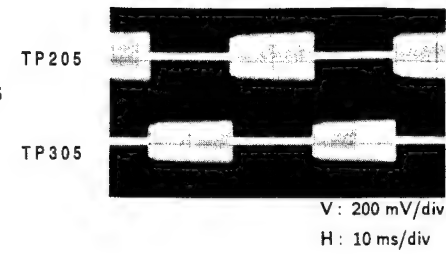
RP-57AP(1-640-034-24)

TP5 A-6
TP105 B-6
TP205 D-6
TP305 D-6

① TP5/TP105
PB



② TP205/TP305
PB



RP-57AP(1-640-034-23)

TP5	A-6
TP105	B-6
TP205	D-6
TP305	D-6

① TP5/TP105
PB

TP5

TP105

V : 200 mV/div

H : 10 ms/div

② TP205/TP305
PB

TP205

TP305

V : 200 mV/div

H : 10 ms/div

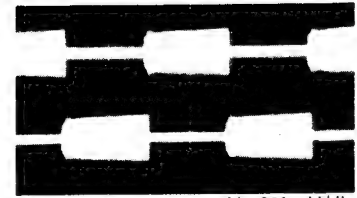
RP-57AP(1-640-034-21,22)

TP5	A-5
TP105	B-5
TP205	D-5
TP305	E-5

① TP5/TP105
PB

TP5

TP105



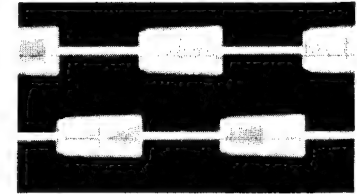
V : 200 mV/div

H : 10 ms/div

② TP205/TP305
PB

TP205

TP305



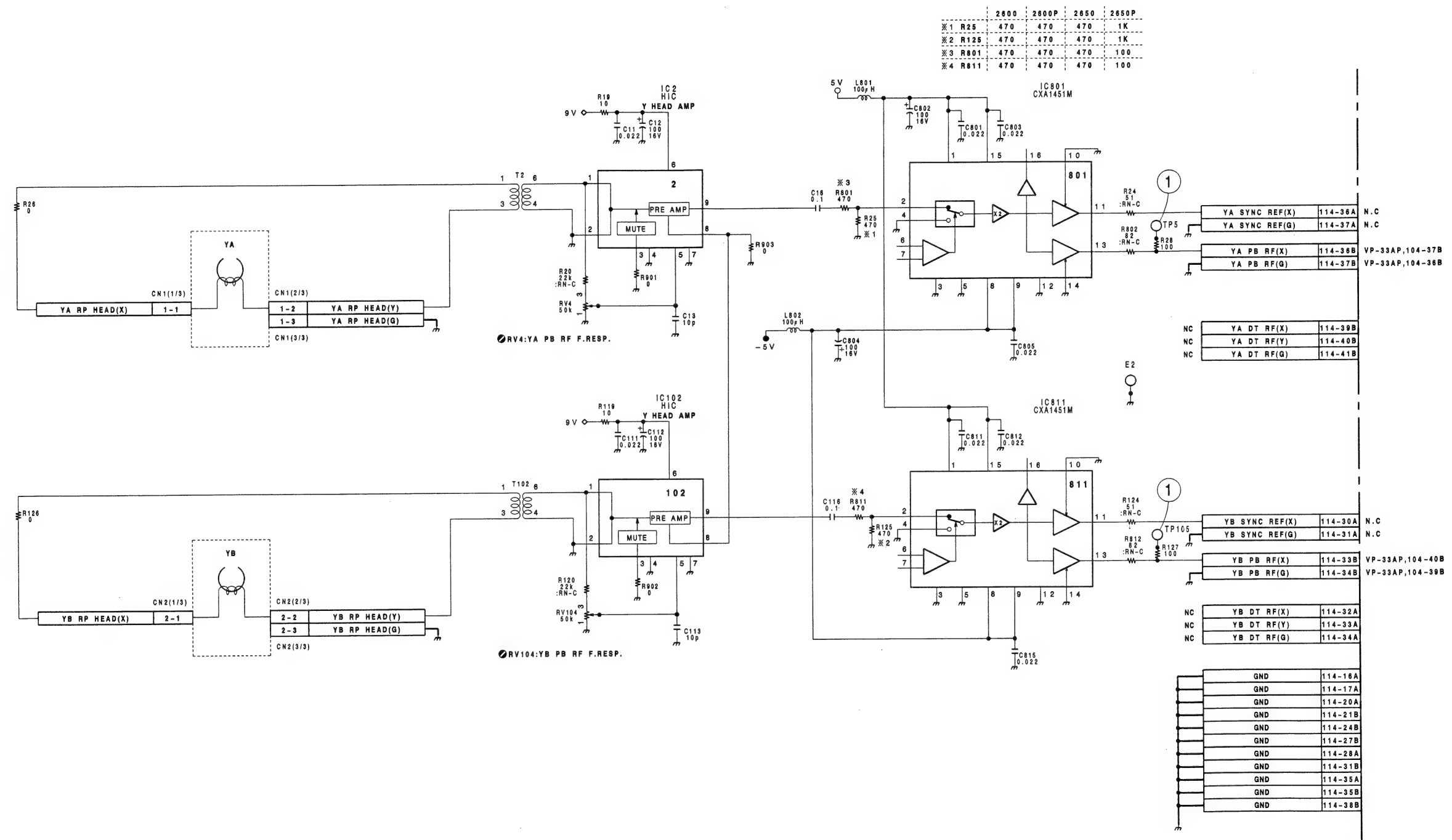
V : 200 mV/div

H : 10 ms/div

Serial No.(EK);12491 and higher
Serial No.(UC);10001 and higher

RP-57AP(1/2) RP-57AP(1/2)

RP-57AP(1/2);Y RF AMPLIFIER



RP-57AP BOARD (1/2)

BOARD NO.1-640-034-24
PVW-2600P (EK);#12491-
PVW-2600P (UC);#10001-

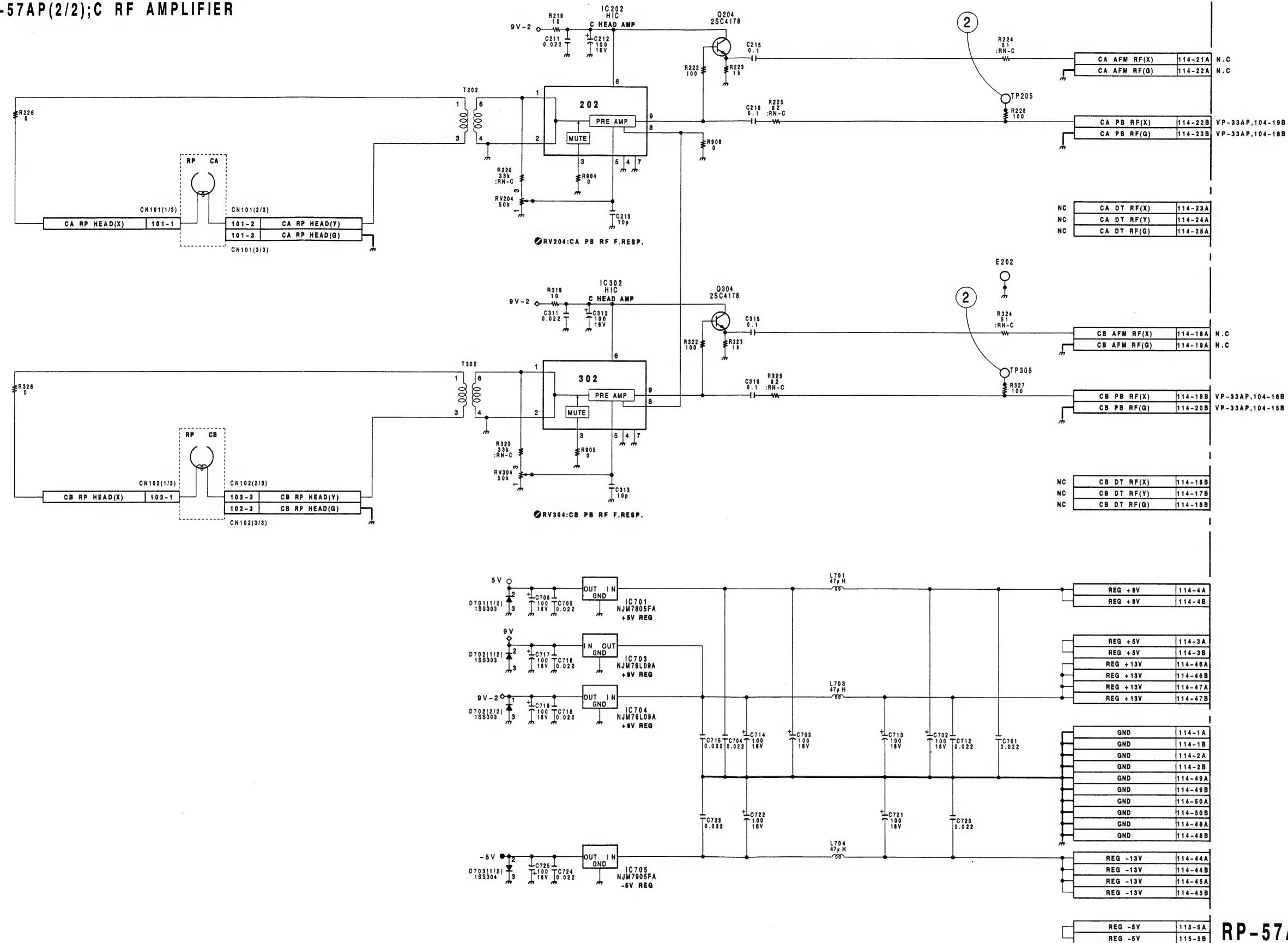
16-3(c)

16-3(c)

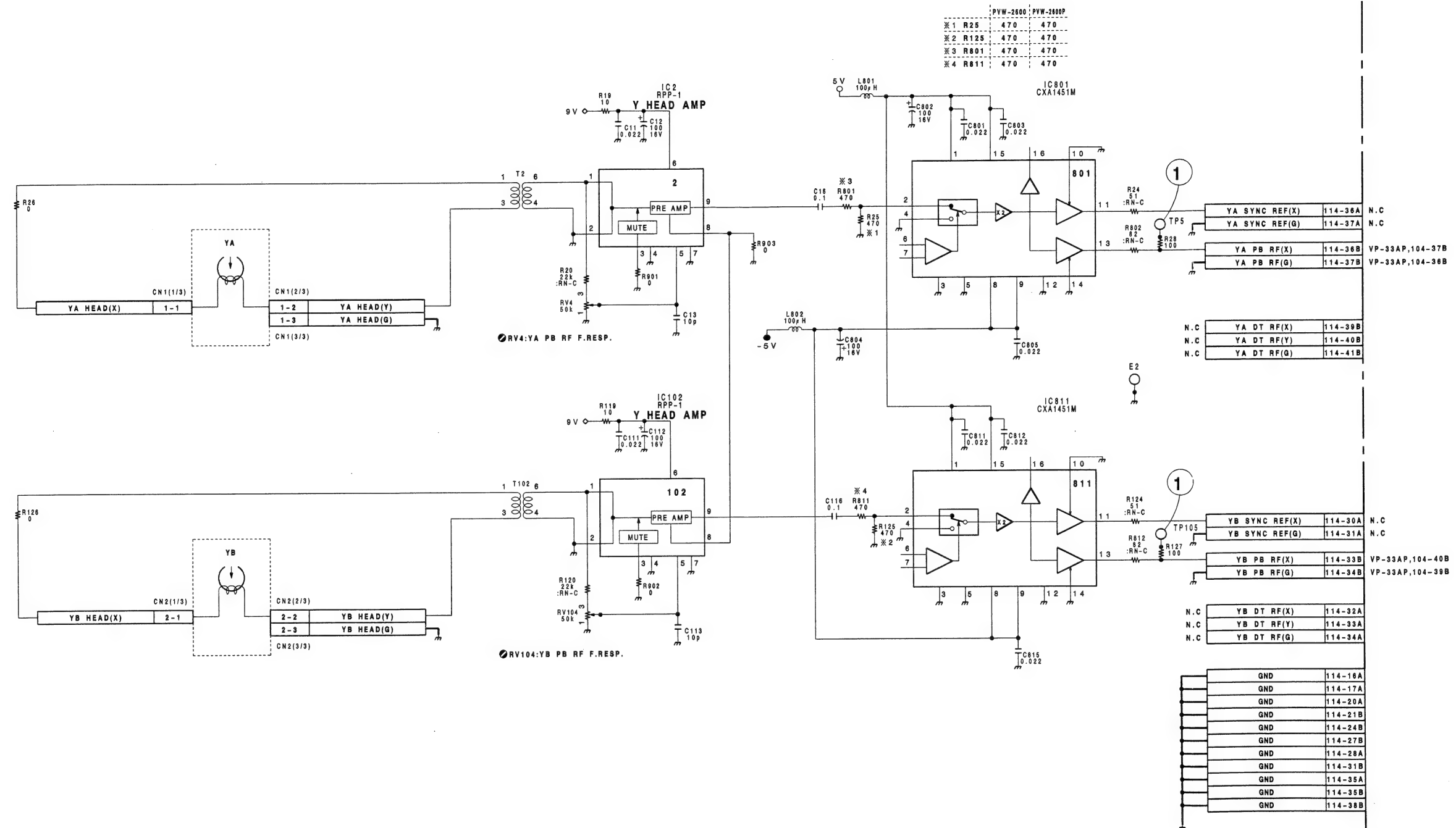
Serial No.(EK);12491 and higher
Serial No.(UC);10001 and higher

RP-57AP(2/2) RP-57AP(2/2)

RP-57AP(2/2);C RF AMPLIFIER



RP-57AP(1/2);Y RF AMPLIFIER

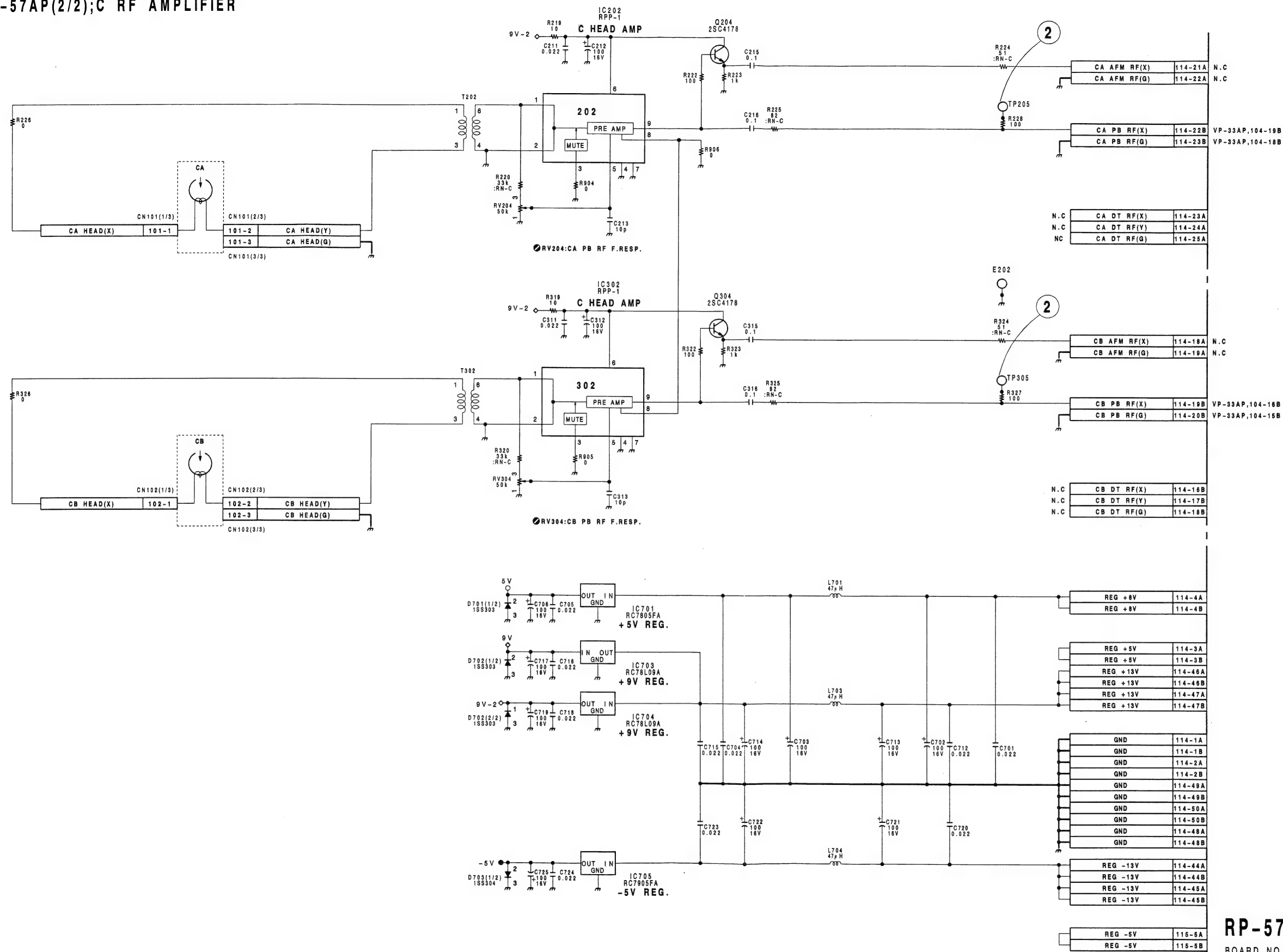


RP-57AP BOARD (1 / 2)

BOARD NO.1-640-034-23
PVW-2600P (EK);#10651-12490

Serial No.(EK);10651 to 12490

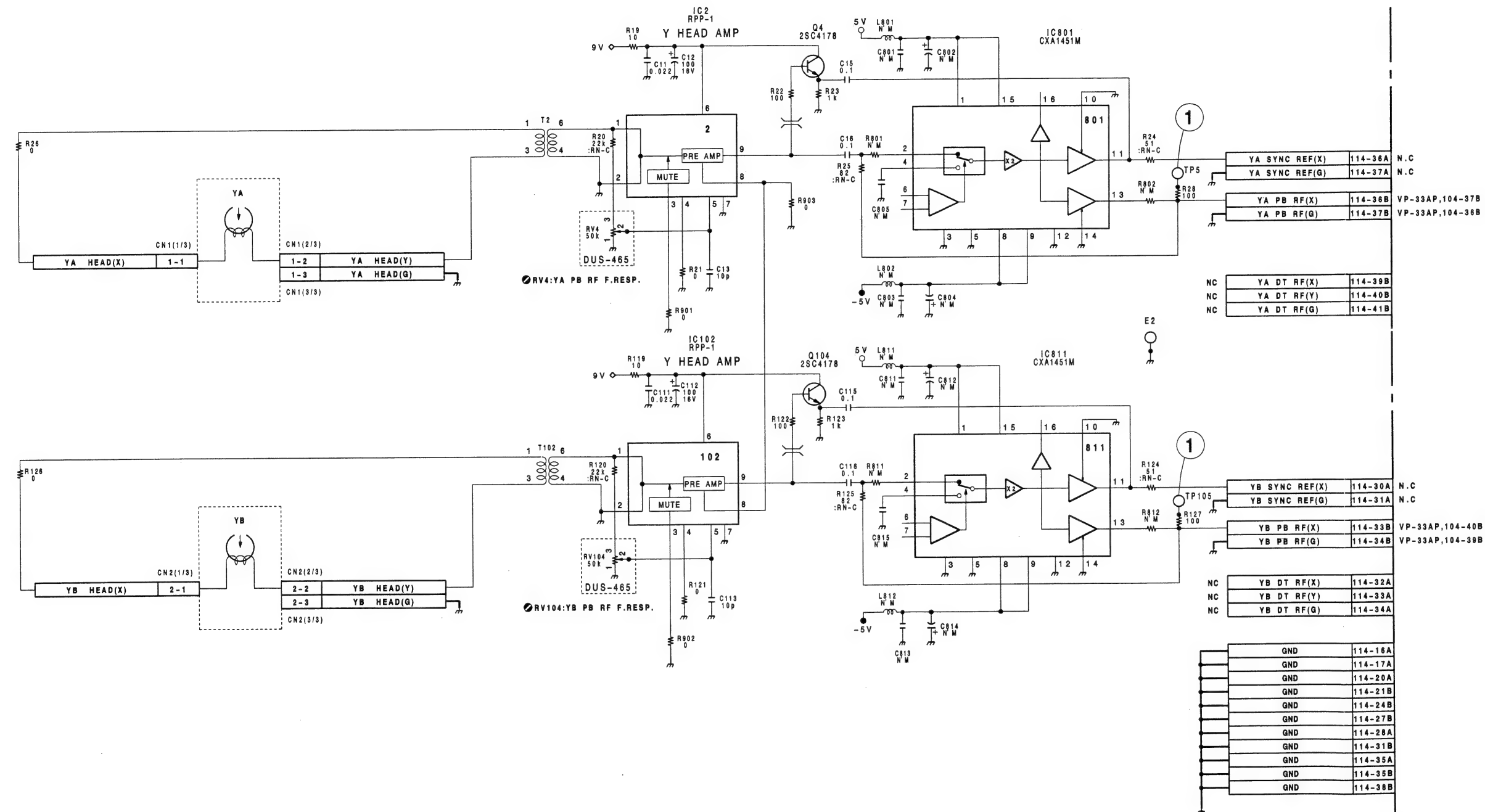
RP-57AP(2/2);C RF AMPLIFIER



RP-57AP BOARD (2 / 2)

BOARD NO.1-640-034-23
PVW-2600P (EK);#10651-12490

RP-57AP(1/2);Y RF AMPLIFIER

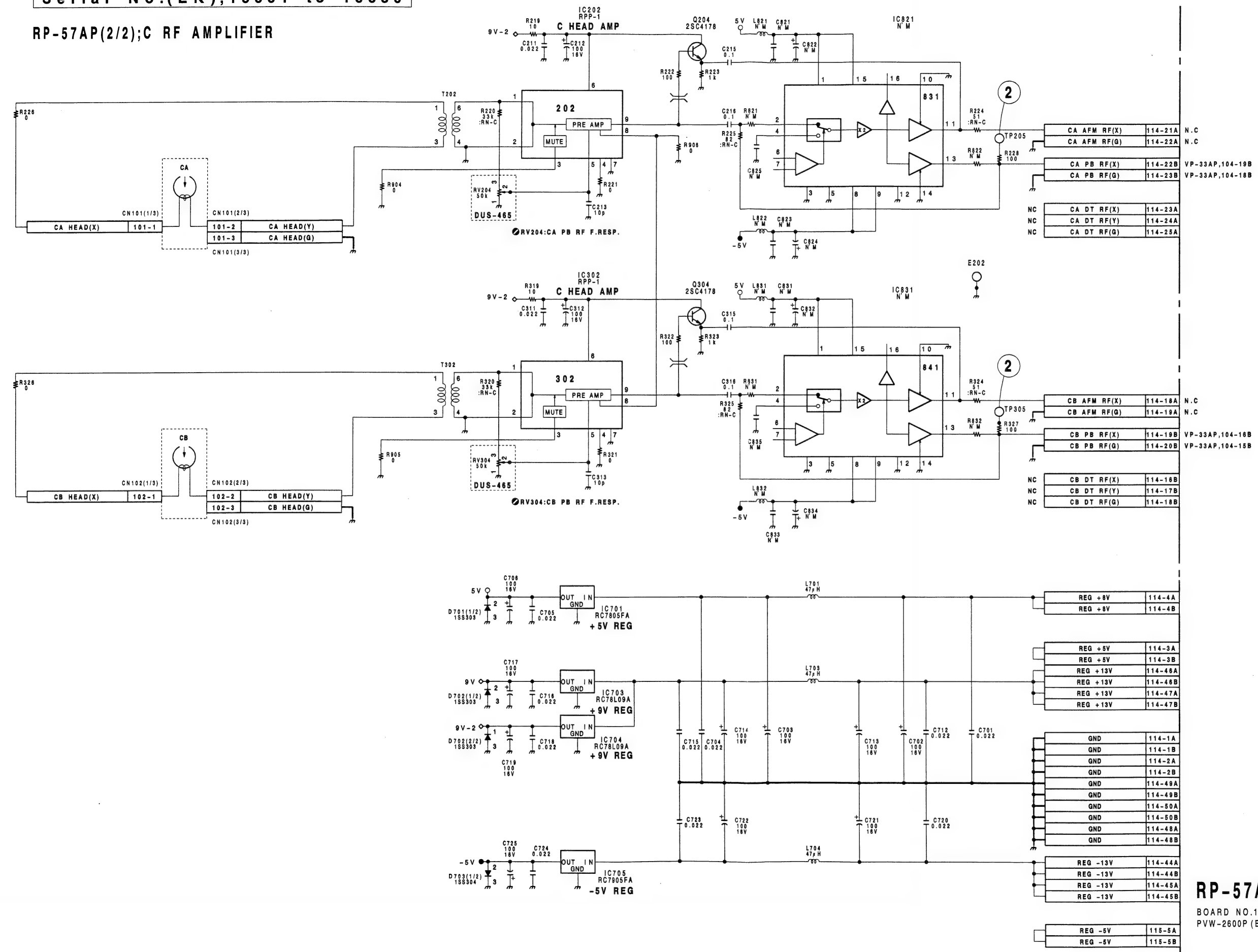


RP-57AP BOARD (1/2)

BOARD NO.1-640-034-21,22
PVW-2600P(EK);#10001-10650

Serial No.(EK);10001 to 10650

RP-57AP(2/2);C RF AMPLIFIER



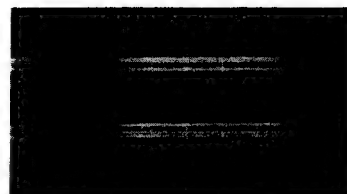
RP-57AP BOARD (2/2)

BOARD NO.1-640-034-21,22
PVW-2600P (EK);#10001-10650

VP-33AP(1-640-032-14)

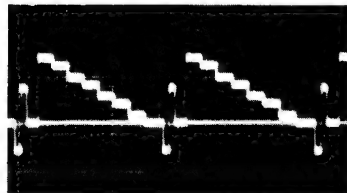
TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP504	H-2
TP505	G-3
TP701	M-3
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP711	M-6
TP713	M-6
TP715	K-1
TP716	K-1
TP717	L-1

① TP201
PB



V : 200 mV/div
H : 2 ms/div

② TP204
PB



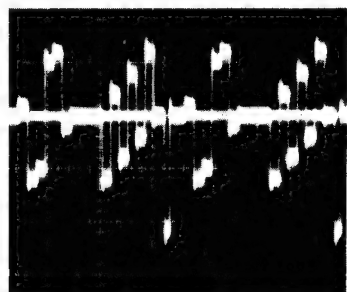
V : 500 mV/div
H : 20 μ s/div

③ TP501
PB



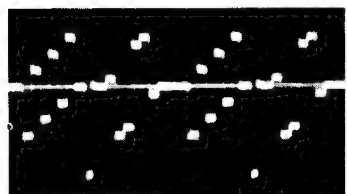
V : 200 mV/div
H : 20 μ s/div

④ TP502
PB



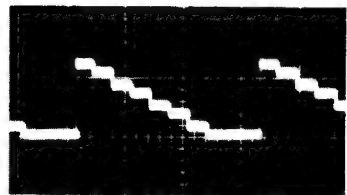
V : 200 mV/div
H : 20 μ s/div

⑤ TP504
PB



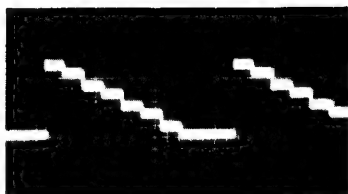
V : 500 mV/div
H : 20 μ s/div

⑥ TP701
PB



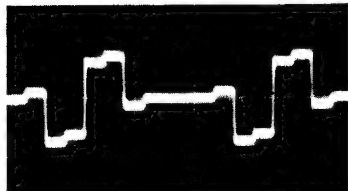
V : 1 V/div
H : 20 μ s/div

⑦ TP702
PB



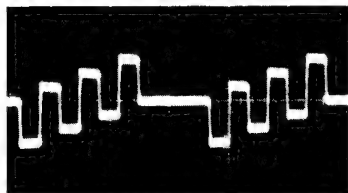
V: 1 V/div
H: 20 μ s/div

⑧ TP709
PB



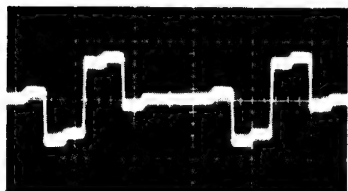
V: 1 V/div
H: 20 μ s/div

⑨ TP710
PB



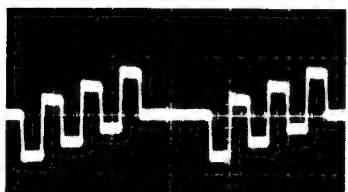
V: 1 V/div
H: 20 μ s/div

⑩ TP715
PB



V: 500 mV/div
H: 20 μ s/div

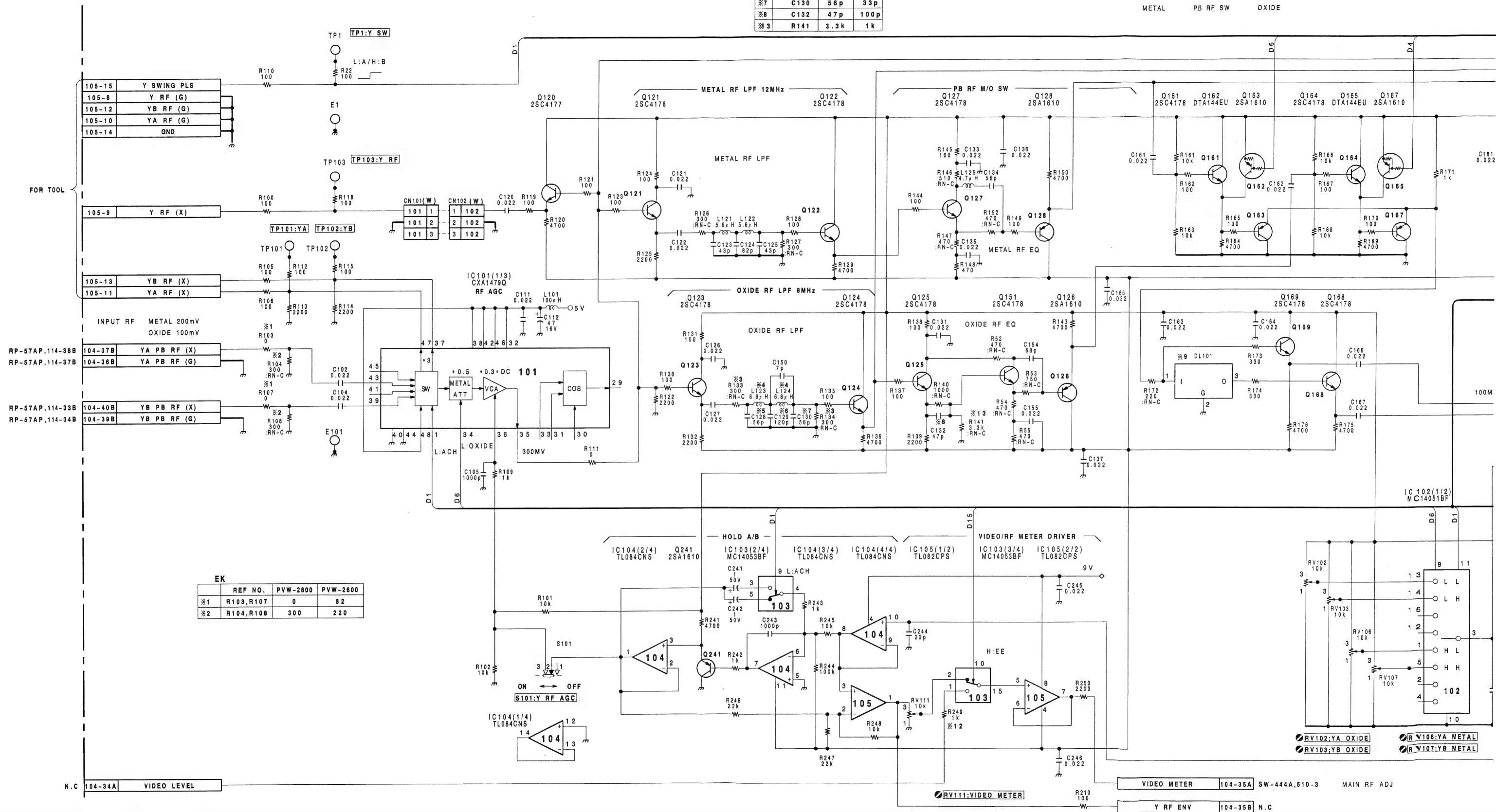
⑪ TP716
PB



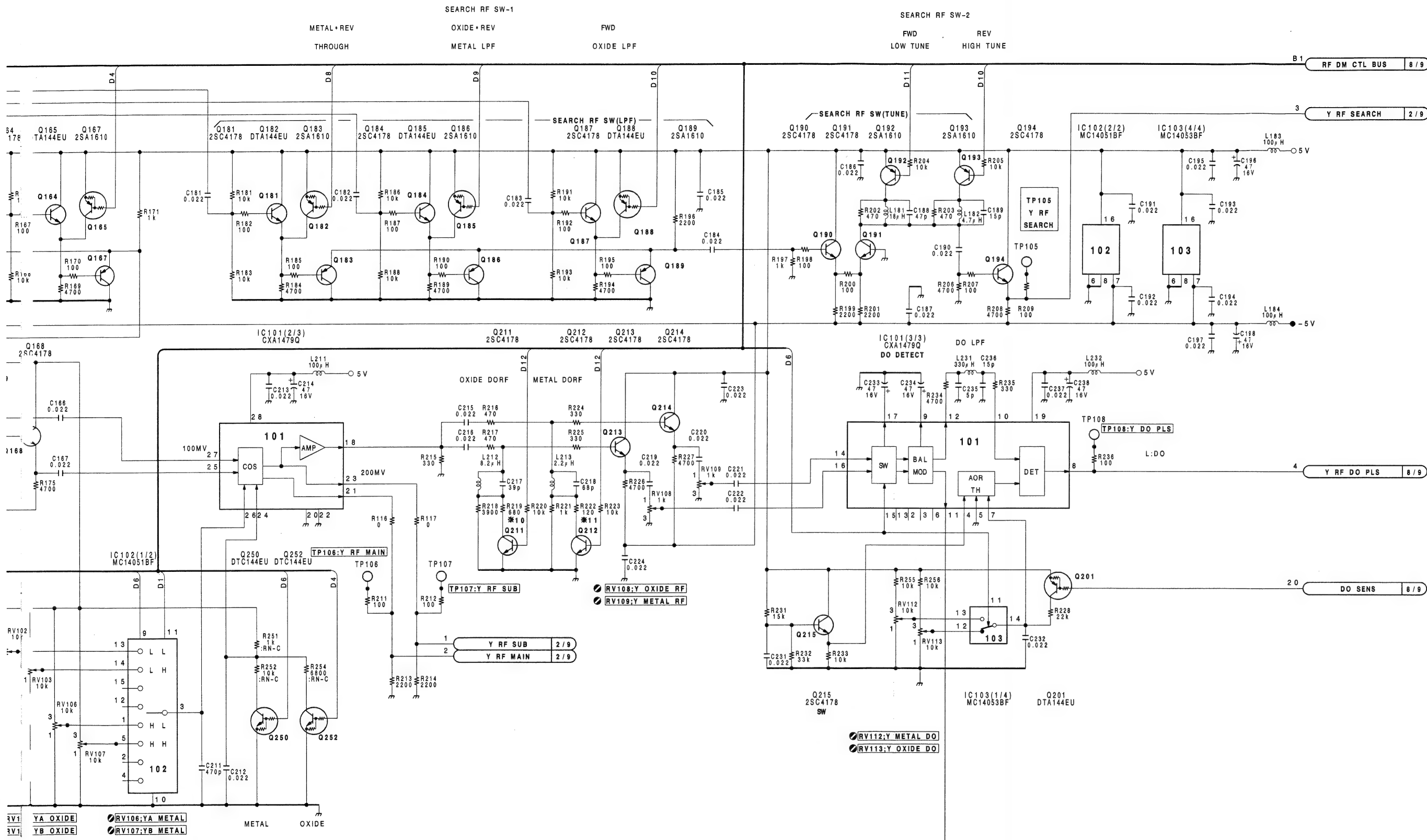
V: 500 mV/div
H: 20 μ s/div

	REF NO.	J,UC	EK
※3	R133,R134	300	330
※4	L123,L124	6.8 μ H	10 μ
※5	C128	56 p	33 p
※6	C129	120 p	100 p
※7	C130	56 p	33 p
※8	C132	47 p	100 p
※9	R141	3.3 k	1 k

REF NO.	J,UC	EK
※9 DL101	1-415-546-11 50 ns	1-415-154-31 35 ns
FC	5MHz	7MHz
METAL	PB RF SW	OXIDE



	REF NO.	PVW-2800	PVW-2600
2	R249	1 k	NO M' T



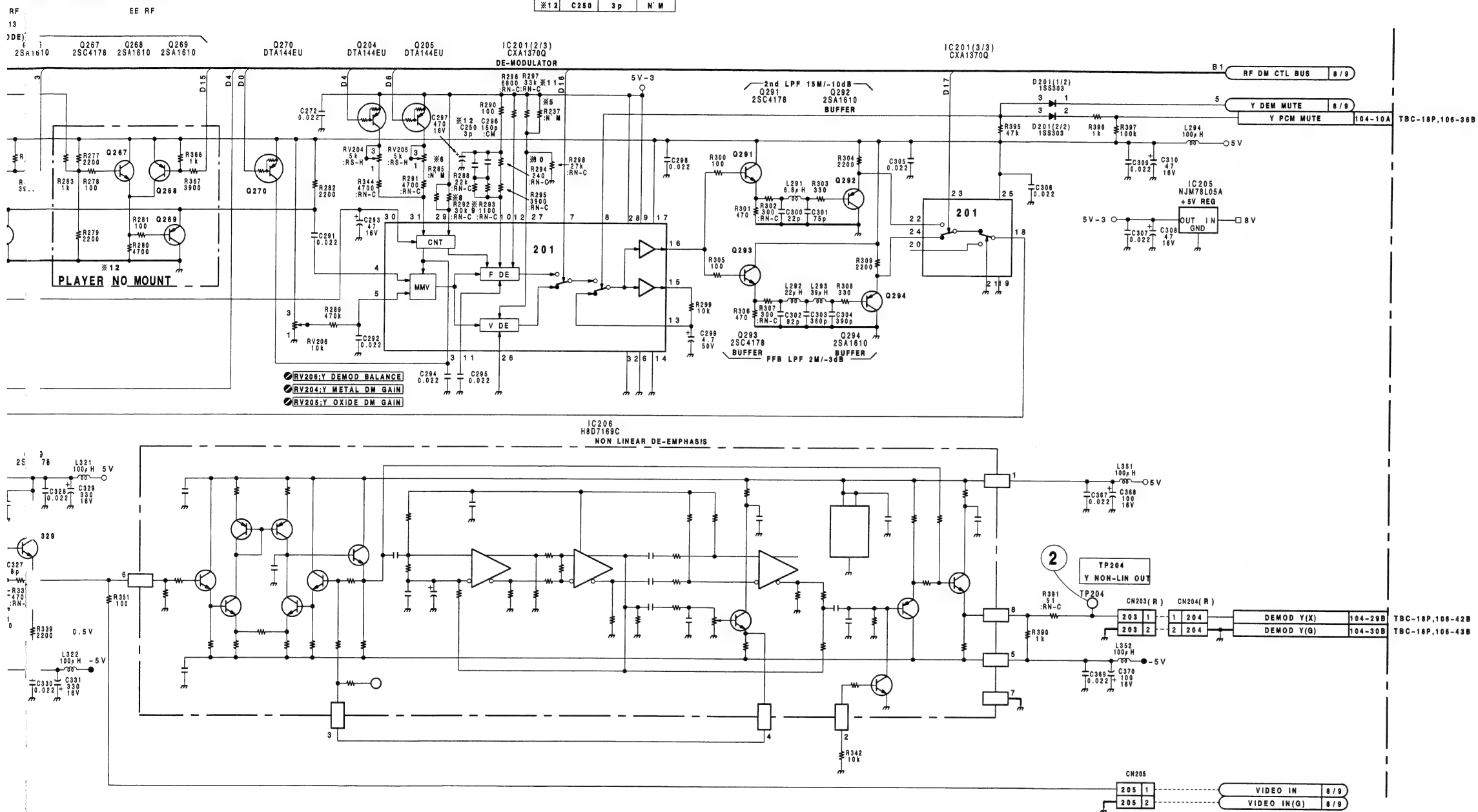
VP-33AP BOARD (1/9)

BOARD NO.1-640-032-14
PVW-2600P (EK); #12951-
PVW-2600P (UC); #10001-

REF NO.	J,UC	EK
R219	J,UC	EK
PVW-2800	680	680
PVW-2600	1k	680

表 12	PVW-2800	PVW-2600
R277	2200	NO MOUNT
R278	100	NO MOUNT
1279	2200	NO MOUNT
1280	4700	NO MOUNT
R281	100	NO MOUNT
R283	1 k	NO MOUNT
R366	1 k	NO MOUNT
1367	3900	NO MOUNT
1287	2SC4178	NO MOUNT
1288	2SA1610	NO MOUNT
Q289	2SA1610	NO MOUNT

	REF NO.	J,UC	EK
※5	R237	N' M	1M
※6	R285	N' M	N' M
※8	R292	30 k	33 k
※9	R293	1100	1 k
※10	R294	240	300
※11	R297	33 k	39 k
※12	C250	3 p	N' M



VP-33AP BOARD (2 / 9)

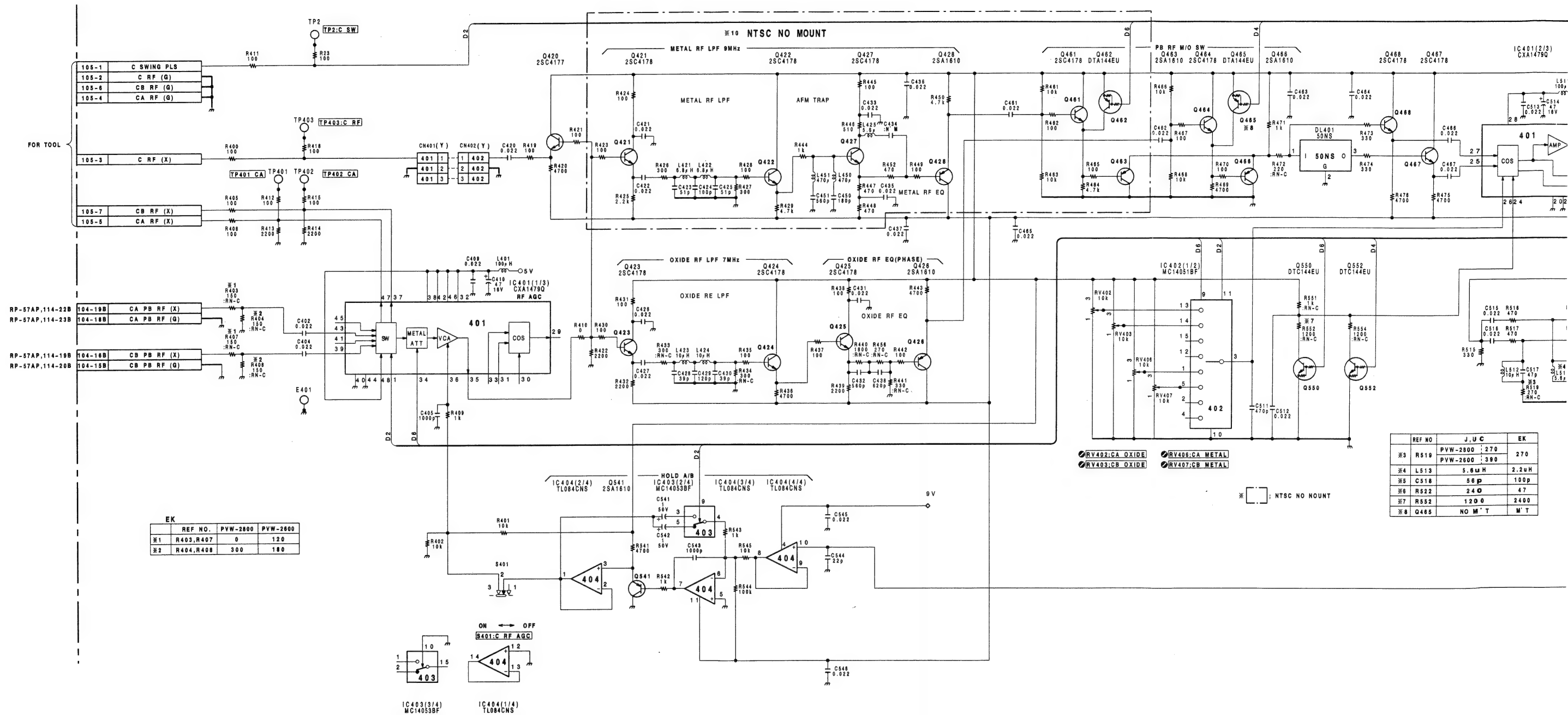
BOARD NO.1-640-032-14
PVW-2600P (EK);#12951-
PVW-2600P (UC);#10001-

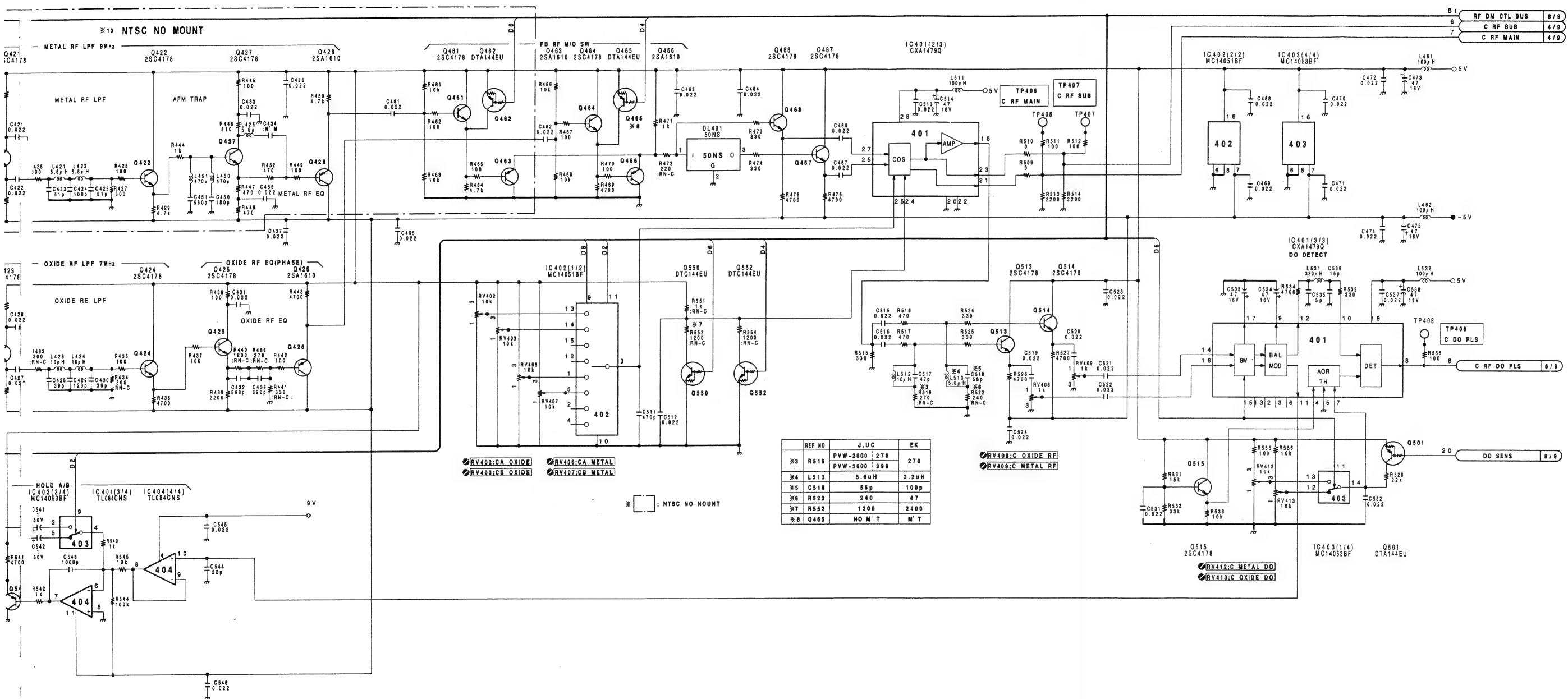
1



Serial No.(EK);12951 and higher
Serial No.(UC);10001 and higher

VP33AP(3/9);C PB RF EQ,C RF AGC,C DO DETECT





VP-33AP BOARD (3/9)

BOARD NO.1-640-032-14
PVW-2600P (EK); #12951-
PVW-2600P (UC); #10001-

VP-33AP(4/9);C DE-MODULATOR, NON LINEAR DE-EMPHASIS

	REF NO.	J,U,C	EK
※6	Q504	NO M' T	DTA144E
※7	RV504	NO M' T	10 k
※8	R580	0	NO M' T
※9	R585	820K	NO M' T
※10	R588	15 k	18 k
※11	R592	33 k	33 k
※12	R598	6800	5800
※13	R644	NO M' T	8200
※14	C560	3 p	NO M' T
※15	Q505	NO M' T	DTA144E
※19	R557	0	NO M' T
※20	R558	NO M' T	0

N.C. 104-23A C EE RF(X)
 N.C. 104-22A C EE RF(G)

3/9 C RF MAIN 7
 3/9 C RF SUB 6
 2/9 SELECT SPEED 10

IC501(1/2) CXA1370Q
 IC502(2/4) MC14053BF
 IC502(1/4) MC14053BF
 IC502(3/4) MC14053BF
 IC504 :N:M
 IC506 H8D7169C NON LINEAR DE-EMPHASIS

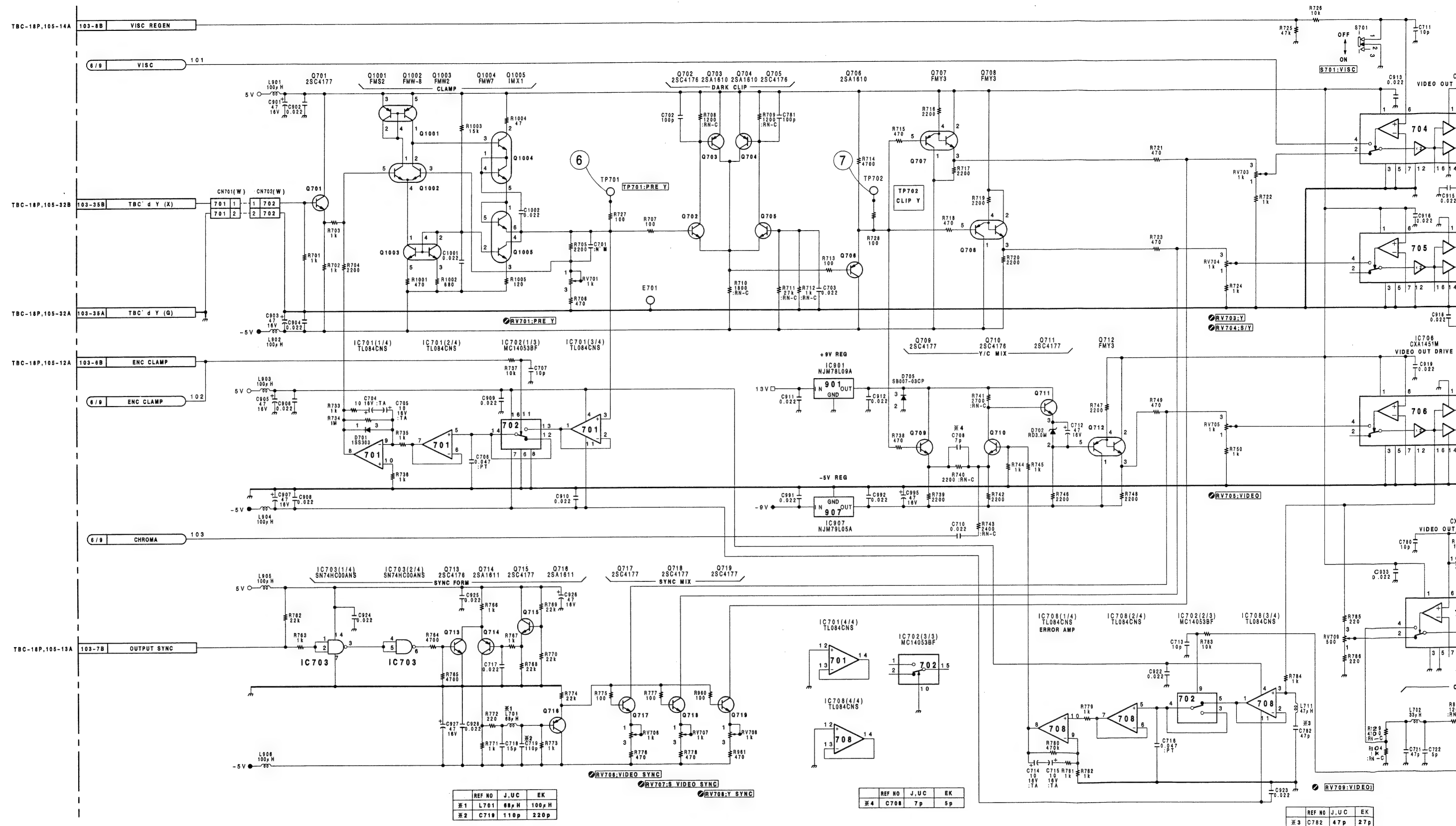
Q501 2SC4178
 Q502 2SA1610
 Q503 2SC4178
 Q504 2SA1610
 Q505 2SC4178
 Q506 2SA1610
 Q507 DTA144EU
 Q508 2SC4178
 Q509 2SA1610
 Q510 2SC4178
 Q511 2SA1610
 Q512 2SC4178
 Q513 2SA1610
 Q514 2SC4178
 Q515 2SA1610
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 Q697 2SC4178
 Q698 2SA1610
 Q699 2SC4178
 Q700 2SA1610

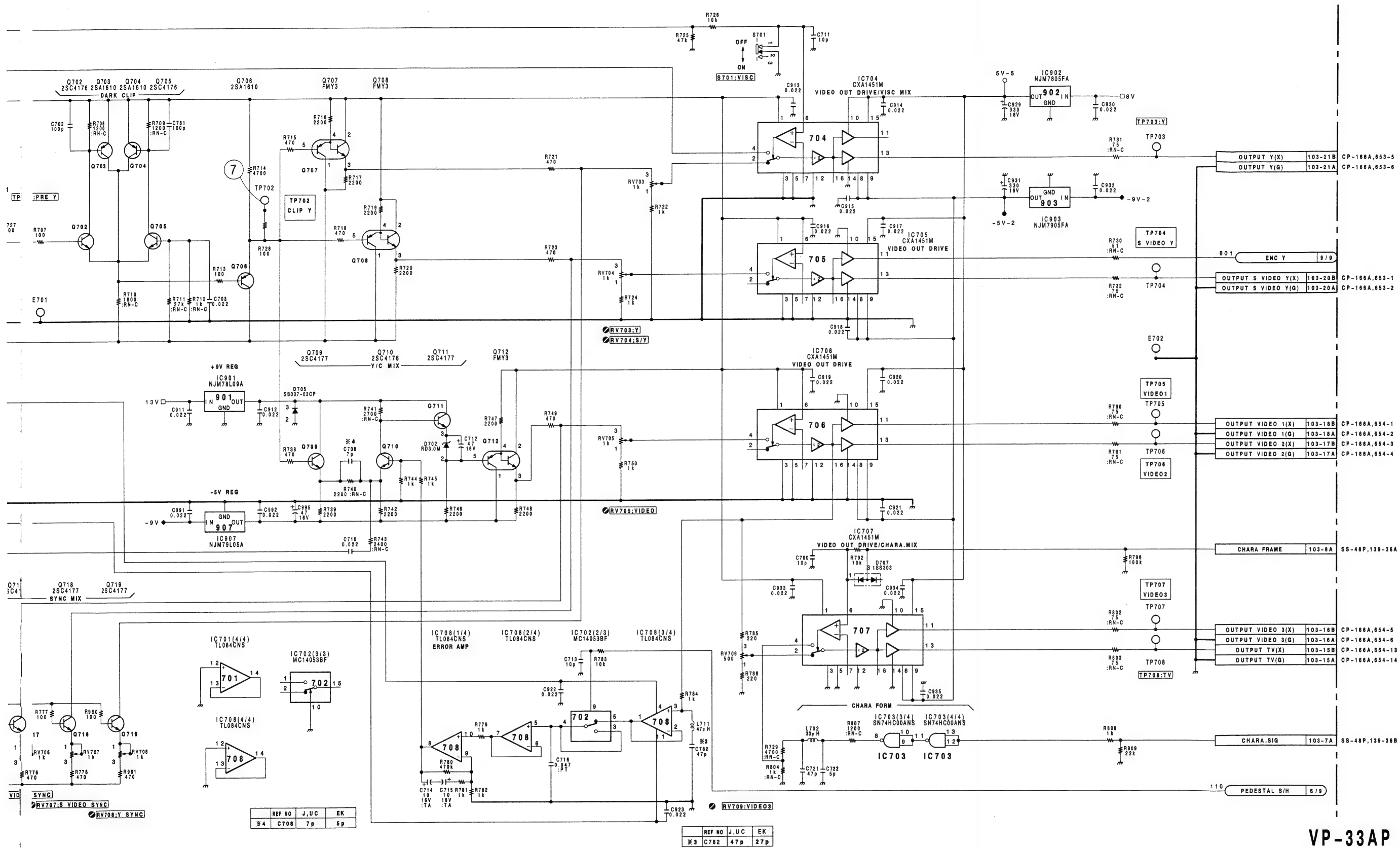
C501 0.022
 C502 0.022
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 C560 0.022
 C561 0.022
 C562 0.022
 C563 0

Serial No.(EK);12951 and higher
Serial No.(UC);10001 and higher

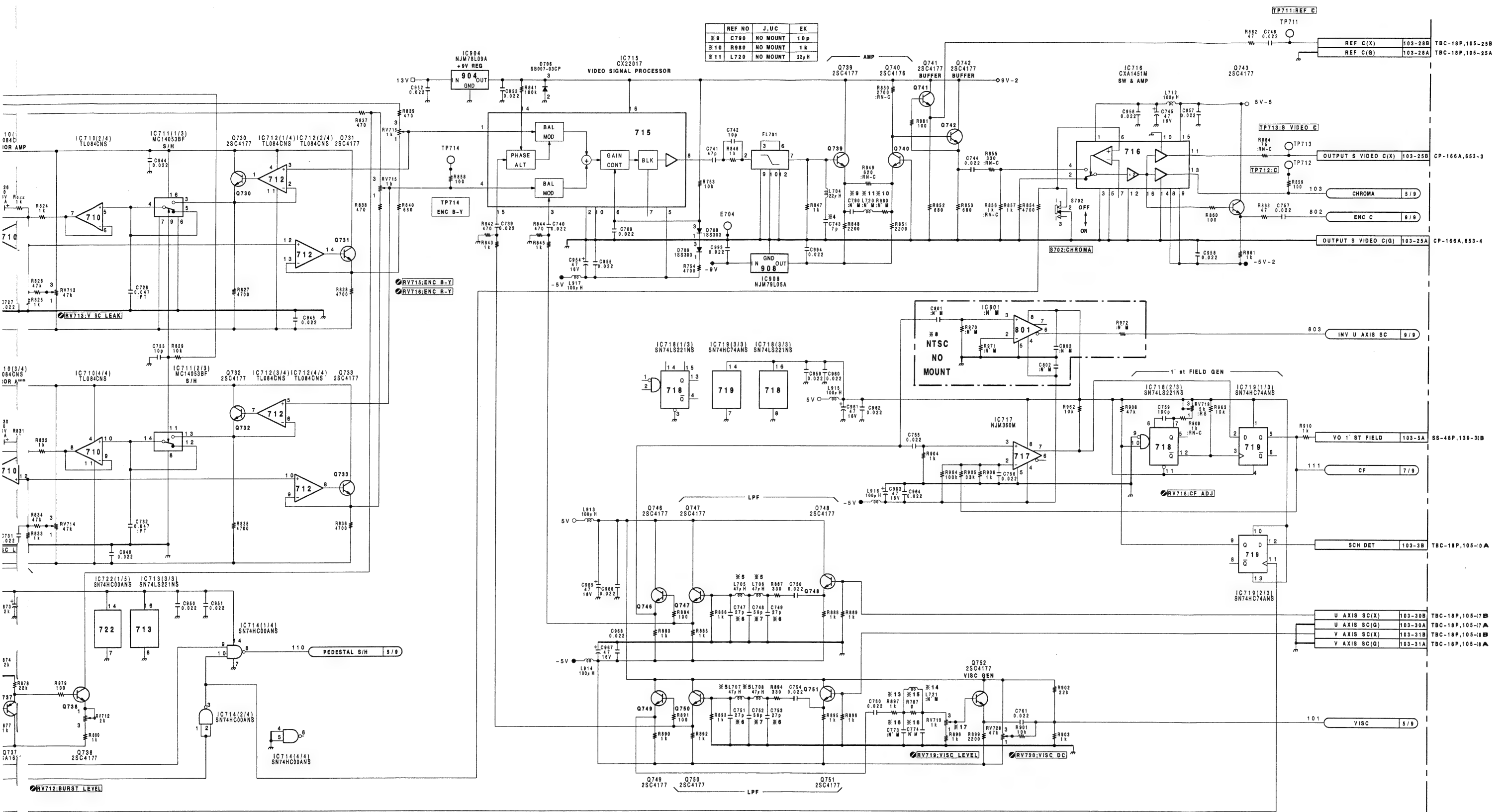
VP-33AP(5/9) VP-33AP(5/9)

VP-33AP(5/9);COMPOSITE OUT DRIVER





VP-33AP(6/9) VP-33AP(6/9)



	REF NO	J,UC	EK
※4	C743	7 p	4 p
※5	L705,706,707,708	47 p H	27 p H
※6	C747,749,751,753	27 p	33 p
※7	C748,752	56 p	68 p
※8	BLOCK	NO M' T	M' T

R970	1 k	C801	0.022
R971	220	C802	0.022
R972	47	C803	0.022
		IC801	NJM360M

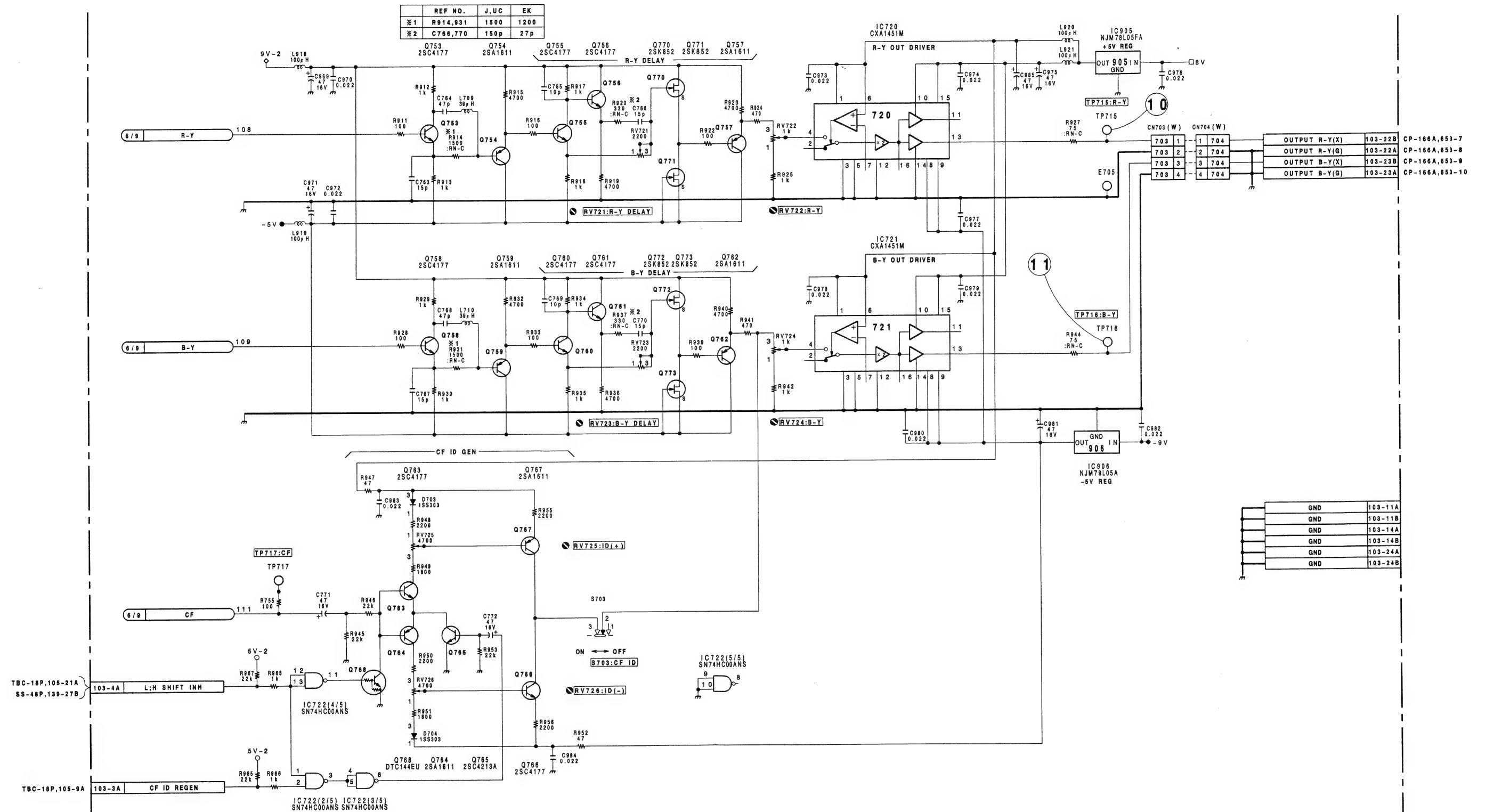
	REF NO	J,UC	EK
※13	R697	1K	510
※14	L721	NO M' T	68UH
※15	R787	0	NO M' T
※16	C773,C774	NO M' T	68P
※17	R898	1K	220

VP-33AP BOARD (6 / 9)

BOARD NO.1-640-032-14
PVW-2600P (EK);#12951-
PVW-2600P (UC);#10001-

Serial No.(EK);12951 and higher
Serial No.(UC);10001 and higher

VP-33(7/9);R-Y/B-Y OUT DRIVER

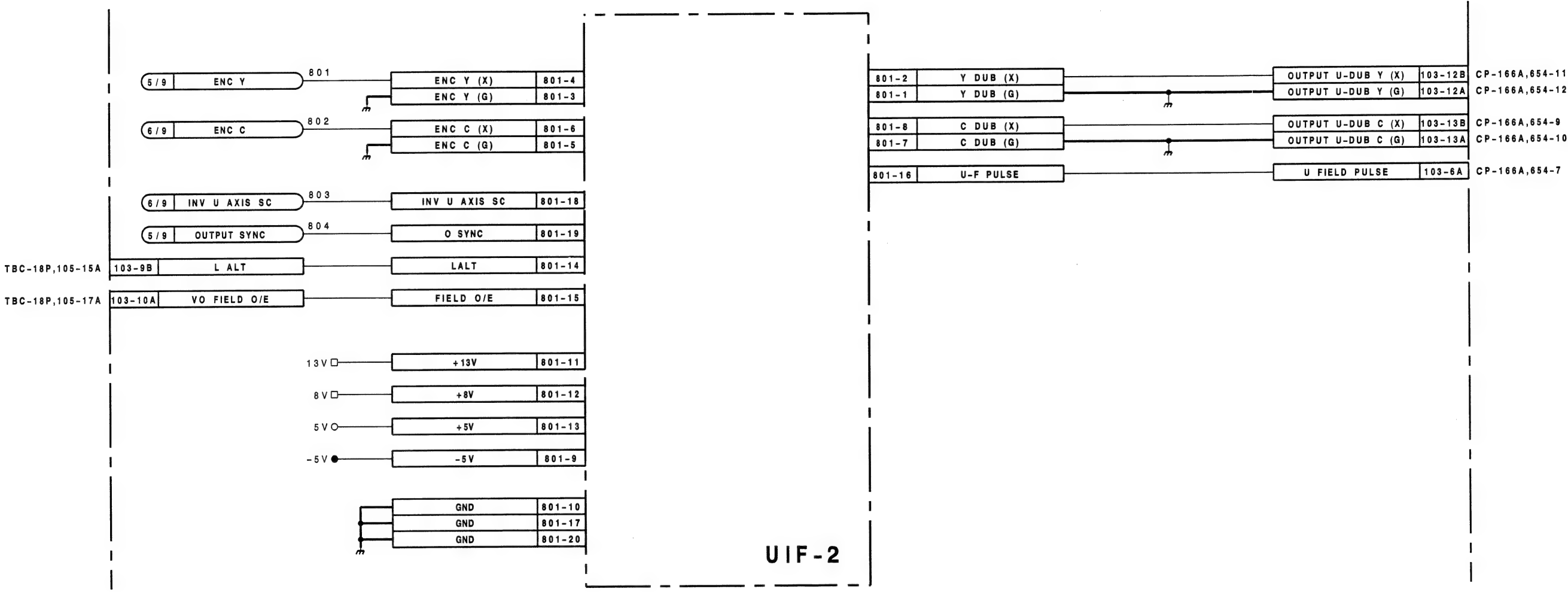


VP-33AP BOARD (7/9)

BOARD NO.1-640-032-14
PVW-2600P(EK);#12951-
PVW-2600P(UC);#10001-

Serial No.(EK);12951 and higher
Serial No.(UC);10001 and higher

VP-33AP(9/9);U-DUB INTERFACE



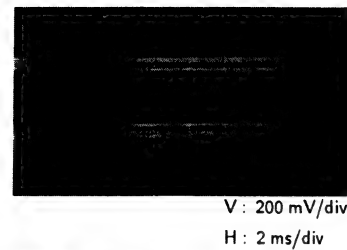
UIF-2

VP-33AP BOARD (9/9)
BOARD NO.1-640-032-14
PVW-2600P (EK);#12951-
PVW-2600P (UC);#10001-

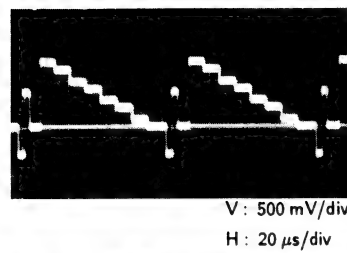
VP-33AP(1-640-032-13)

TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP502	H-1
TP504	H-2
TP505	G-3
TP701	N-3
TP702	N-4
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP709	K-6
TP710	J-6
TP711	M-6
TP712	M-4
TP713	M-6
TP714	K-4
TP715	K-1
TP716	K-1
TP717	L-1

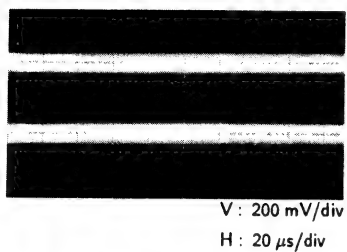
① TP201
PB



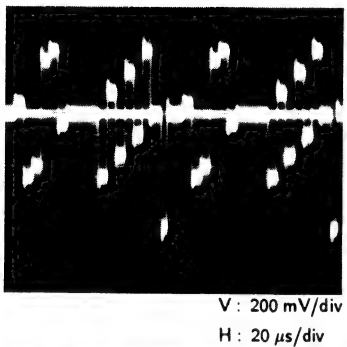
② TP204
PB



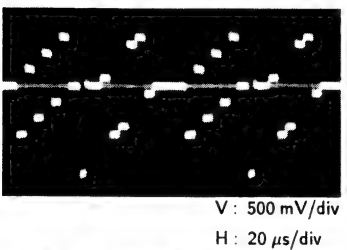
③ TP501
PB



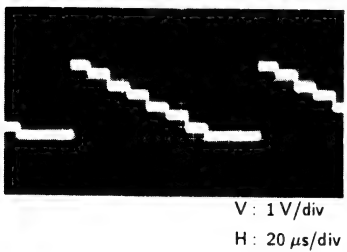
④ TP502
PB



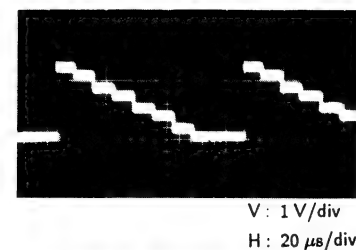
⑤ TP504
PB



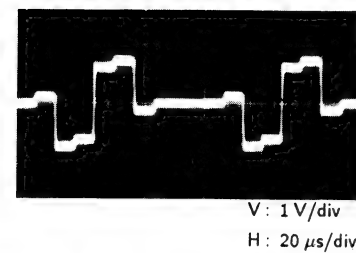
⑥ TP701
PB



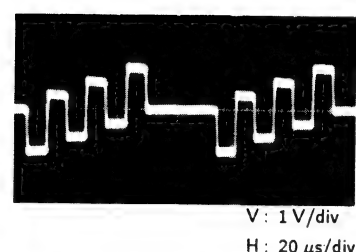
⑦ TP702
PB



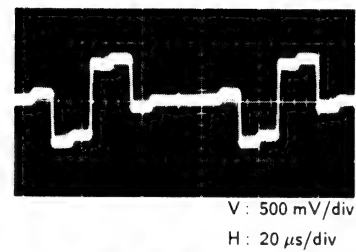
⑧ TP709
PB



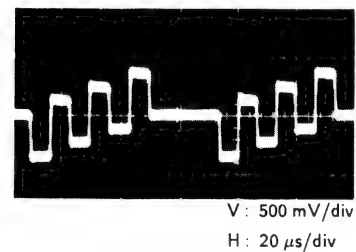
⑨ TP710
PB



⑩ TP715
PB



⑪ TP716
PB



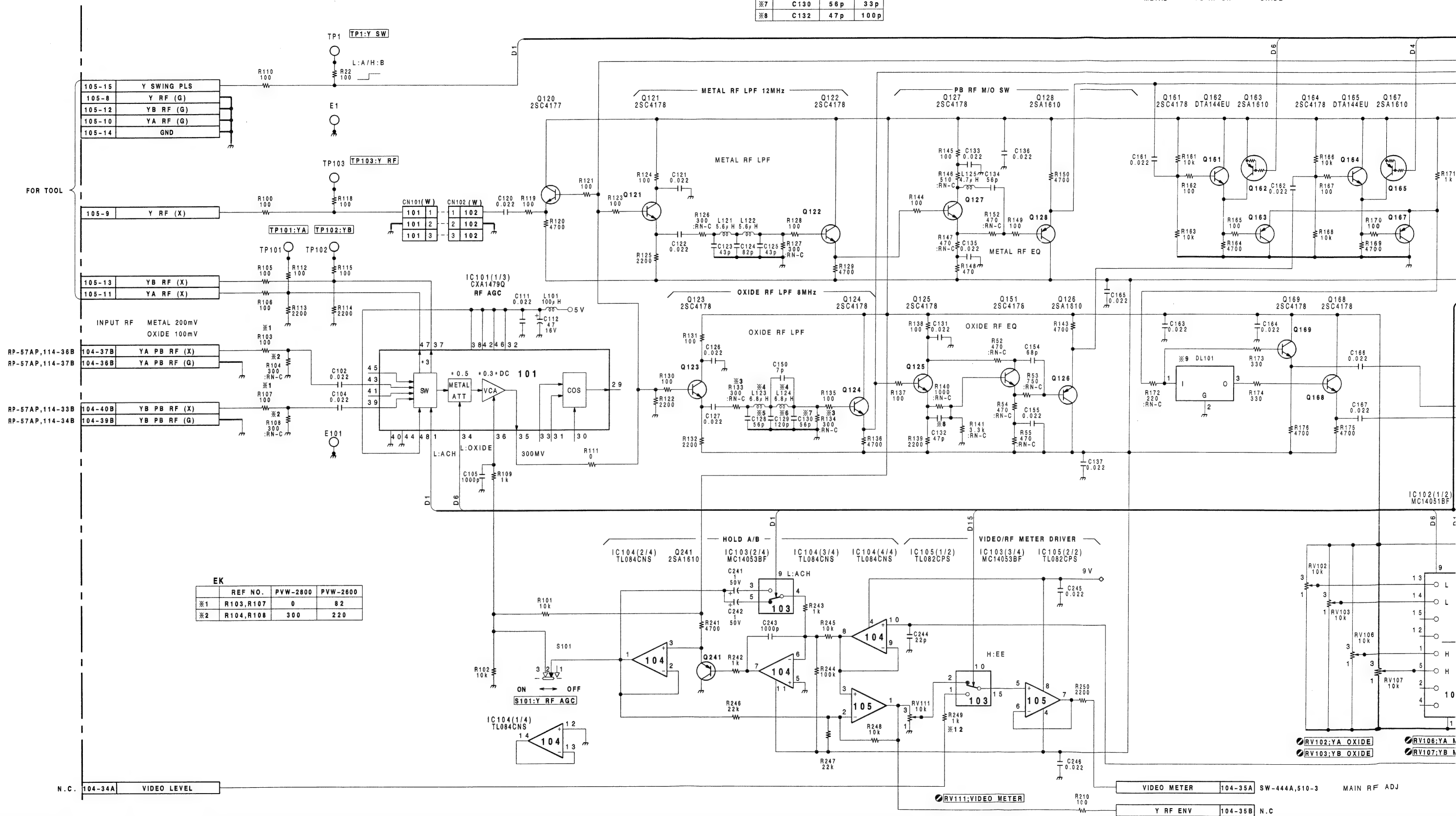
Serial No.(EK);12241 to 12950

VP-33AP(1/9);Y RF AGC,Y DO ENVELOPE DETECT

REF NO.	J,UC	EK
*3 R133,R134	300	330
*4 L123,L124	6.8 μ H	10 μ H
*5 C128	56 p	33 p
*6 C129	120 p	100 p
*7 C130	56 p	33 p
*8 C132	47 p	100 p

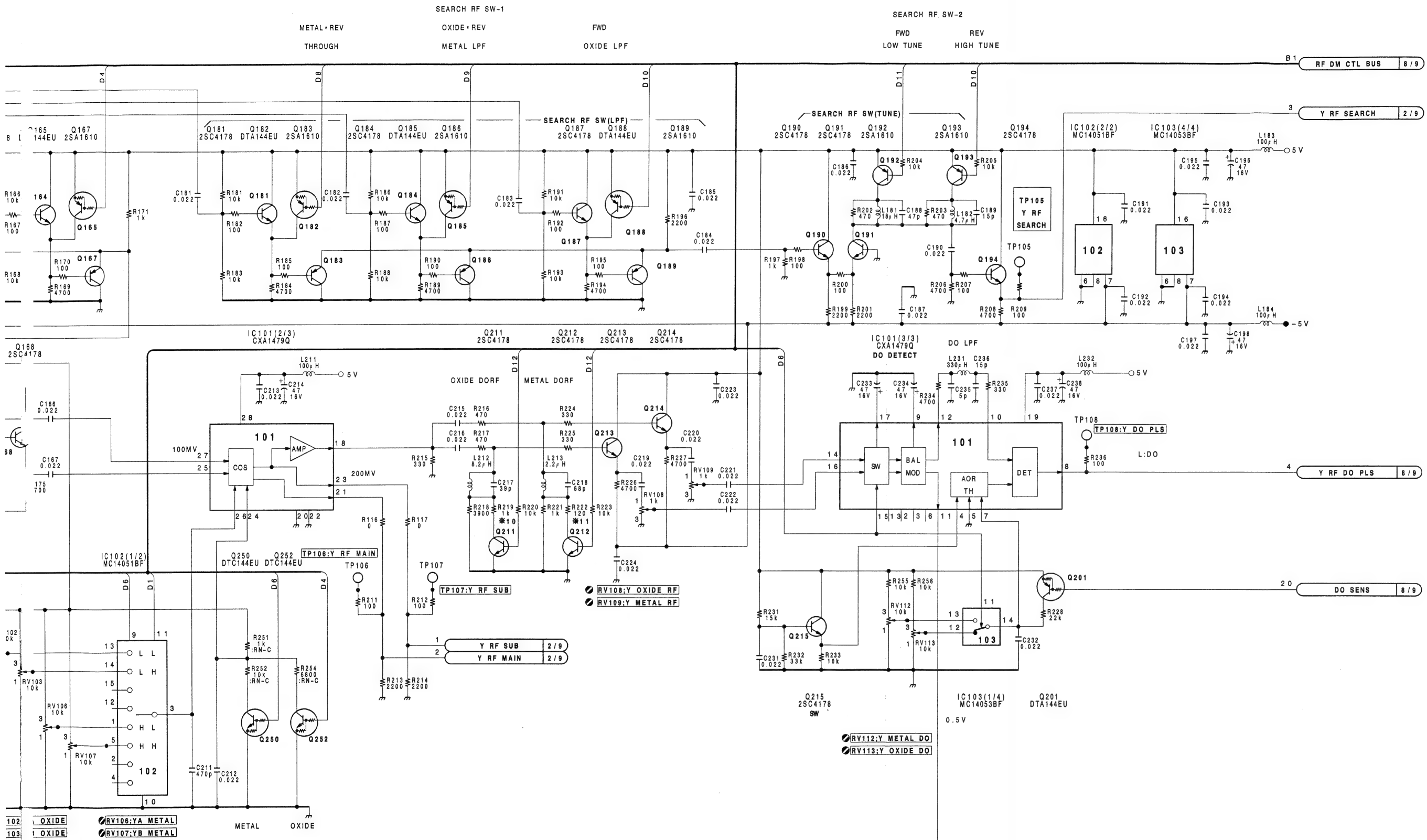
REF NO.	J,UC	EK
*9 DL101	1-415-546-11 50 ns	1-415-154-31 35 ns

METAL PB RF SW OXIDE



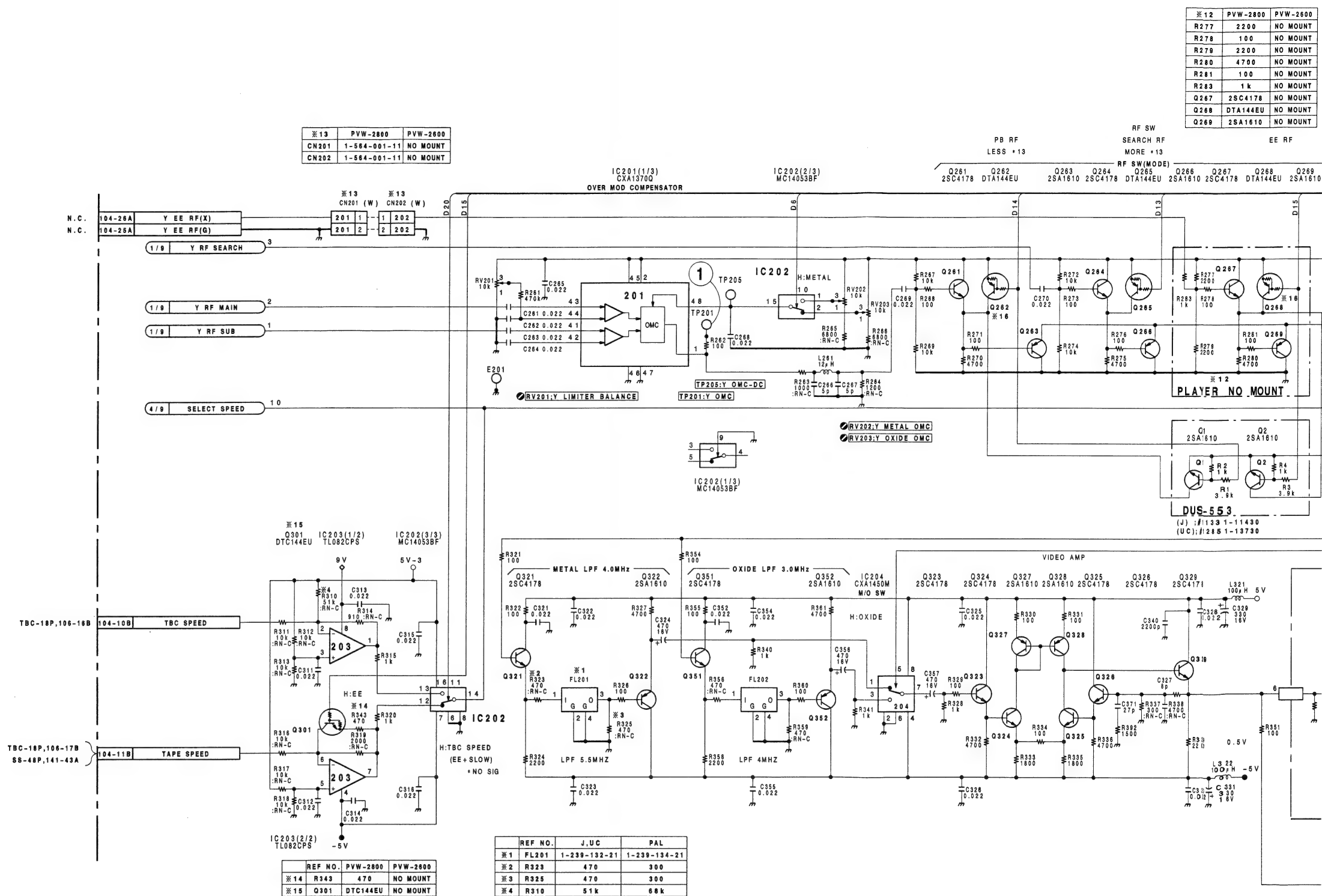
EK	REF NO.	PVW-2800	PVW-2600
*1	R103,R107	0	82
*2	R104,R108	300	220

REF NO.	PVW-2800	PVW-2600
*12	R249	1 k



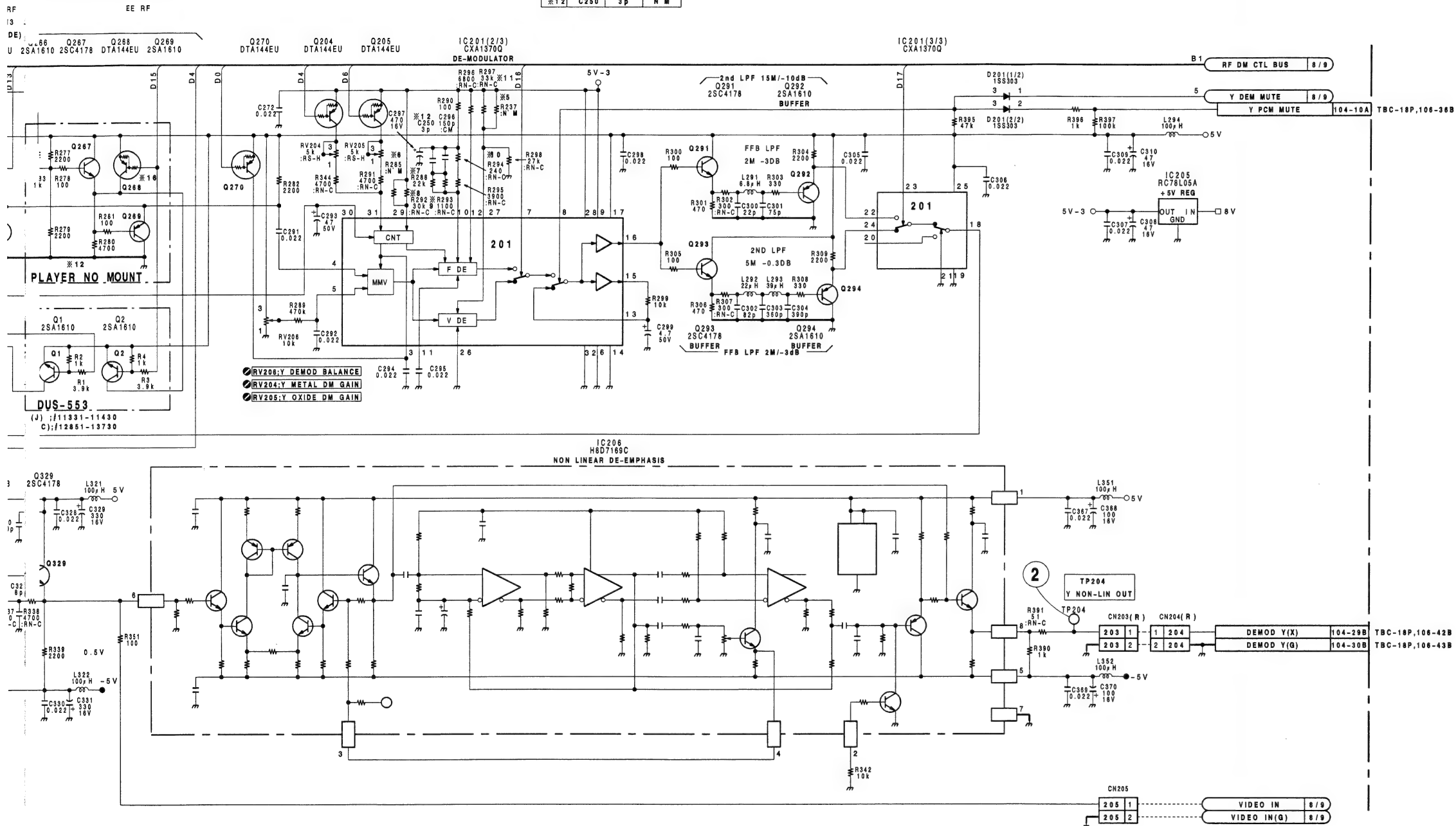
Serial No.(EK);12241 to 12950

VP-33AP(2/9);Y DE-MODULATOR, NON LINEAR DE-EMPHASIS



※ 12	PVW-2800	PVW-2600
R277	2200	NO MOUNT
R278	100	NO MOUNT
R279	2200	NO MOUNT
R280	4700	NO MOUNT
R281	100	NO MOUNT
R283	1k	NO MOUNT
Q267	25C4178	NO MOUNT
Q268	DTA144EU	NO MOUNT
Q269	2SA1810	NO MOUNT

	REF NO.	J,UC	EK
※5	R237	N' M	1M
※6	R285	N' M	N' M
※8	R292	30 k	33 k
※9	R293	1100	1 k
※10	R294	240	300
※11	R297	33 k	39 k
※12	C250	3 p	N' M

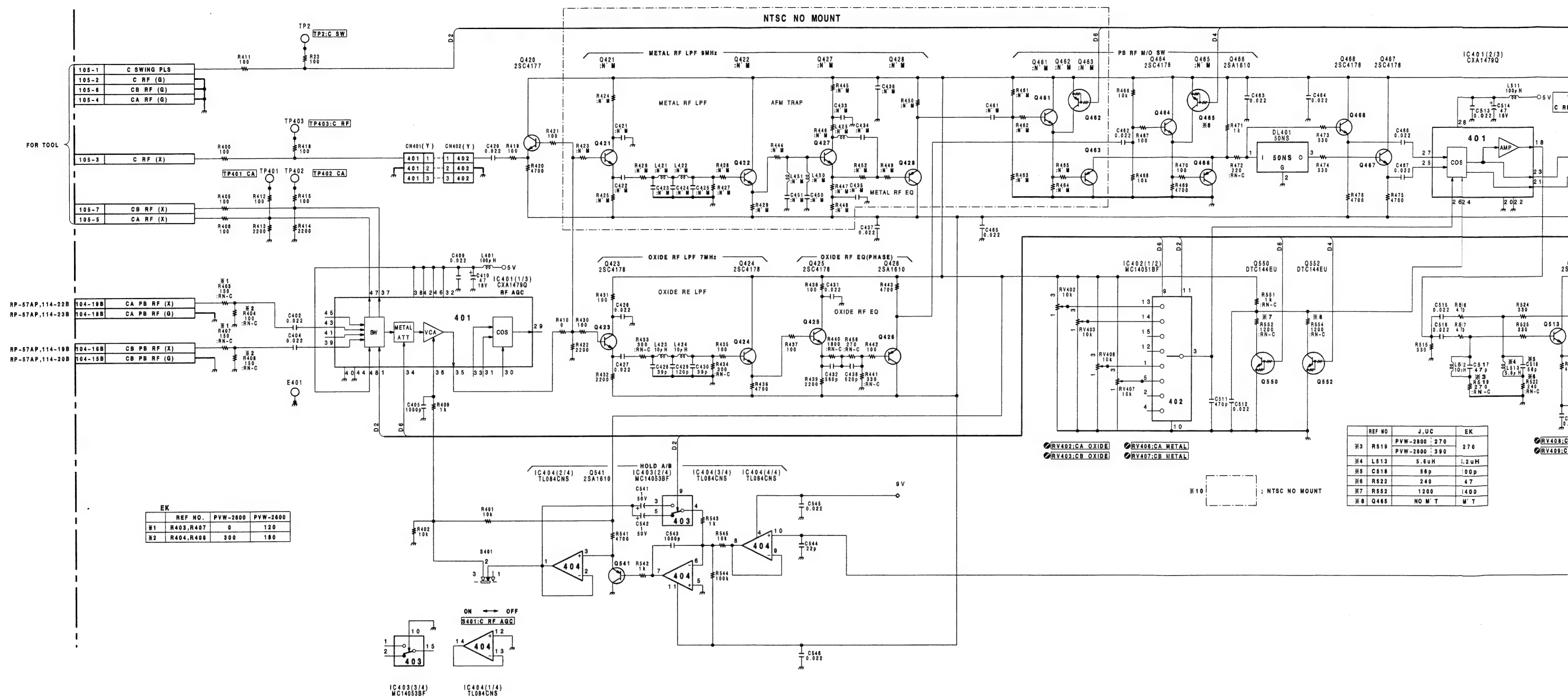


VP-33AP BOARD (2 / 9)

BOARD NO.1-640-032-13
PVW-2600P (EK);#12241-12950

S e r i a l N o . (E K) ; 1 2 2 4 1 t o 1 2 9 5 0

VP-33AP(3/9);C PB RF EQ,C RF AGC,C DO DETECT

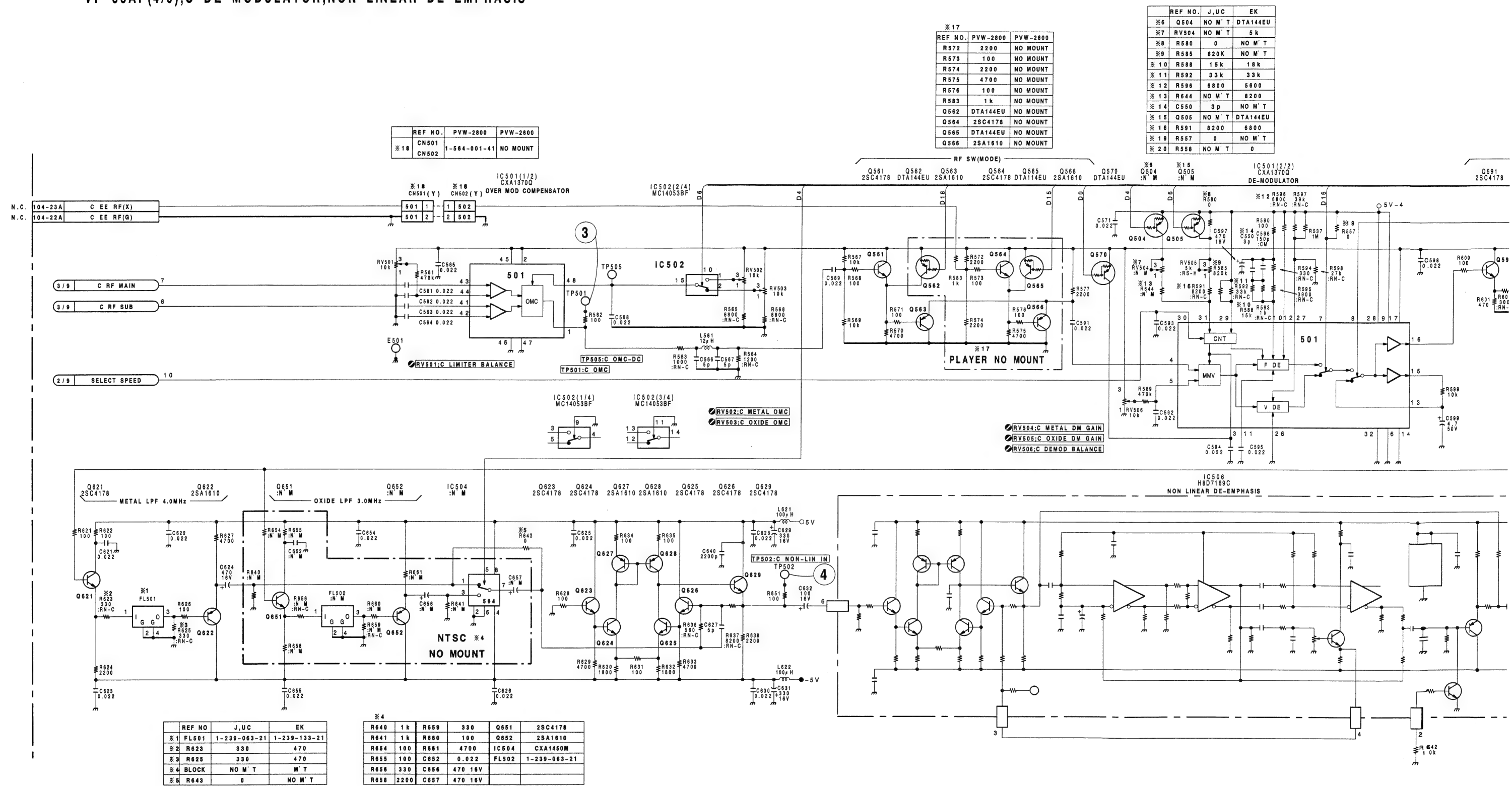




BOARD NO.1-640-032-13
PVW-2600P (EK);#12241-12950

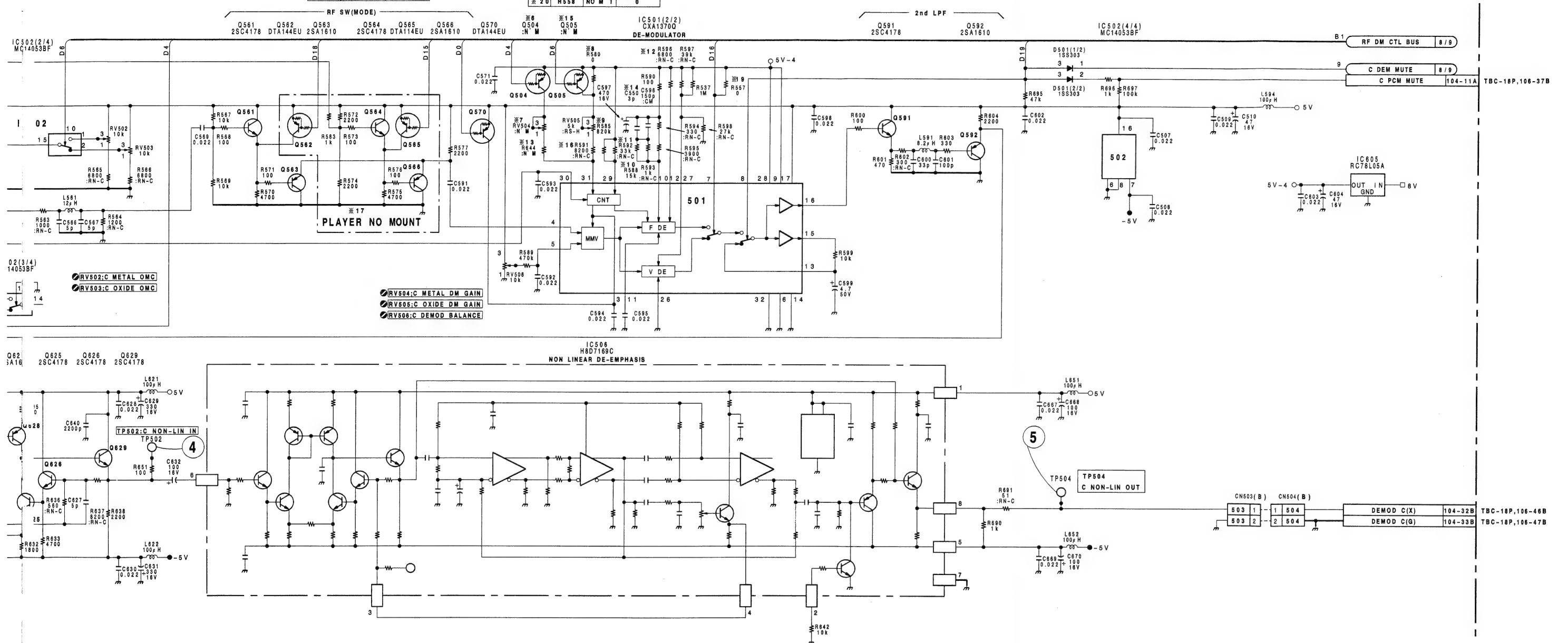
Serial No.(EK);12241 to 12950

VP-33AP(4/9);C DE-MODULATOR, NON LINEAR DE-EMPHASIS



REF. NO.	PVW-2800	PVW-2600
R572	2200	NO MOUNT
R573	100	NO MOUNT
R574	2200	NO MOUNT
R575	4700	NO MOUNT
R576	100	NO MOUNT
R583	1k	NO MOUNT
Q562	DTA144EU	NO MOUNT
Q564	2SC4178	NO MOUNT
Q565	DTA144EU	NO MOUNT
Q566	2SA1610	NO MOUNT

REF. NO.	J,UC	EK
※6	Q504 NO M'T	DTA144EU
※7	RV504 NO M'T	5k
※8	R580 0	NO M'T
※9	R585 820K	NO M'T
※10	R588 15k	18k
※11	R592 33k	33k
※12	R596 6800	5600
※13	R644 NO M'T	8200
※14	C550 3p	NO M'T
※15	Q505 NO M'T	DTA144EU
※16	R591 8200	6800
※19	R557 0	NO M'T
※20	R558 NO M'T	0

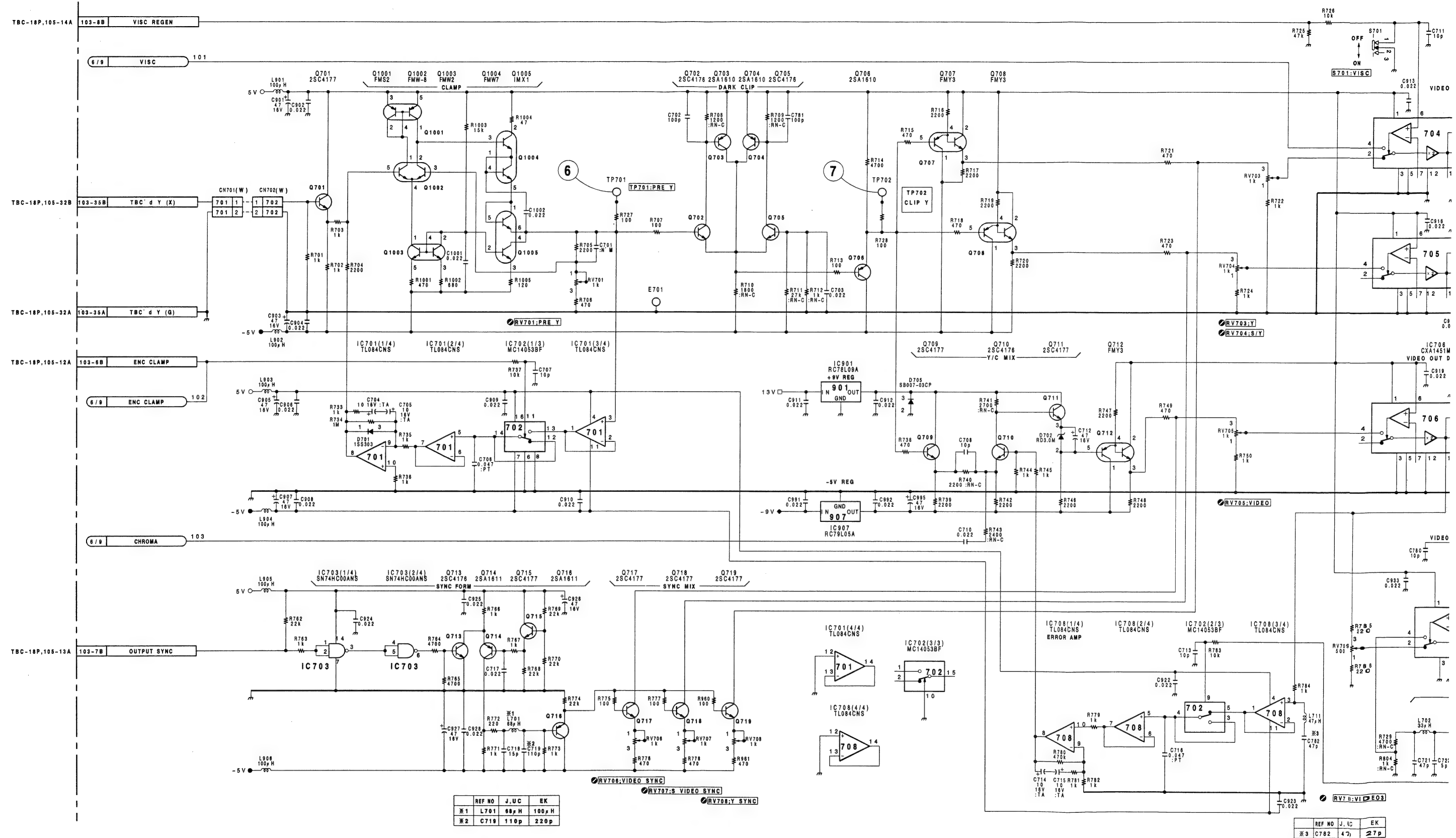


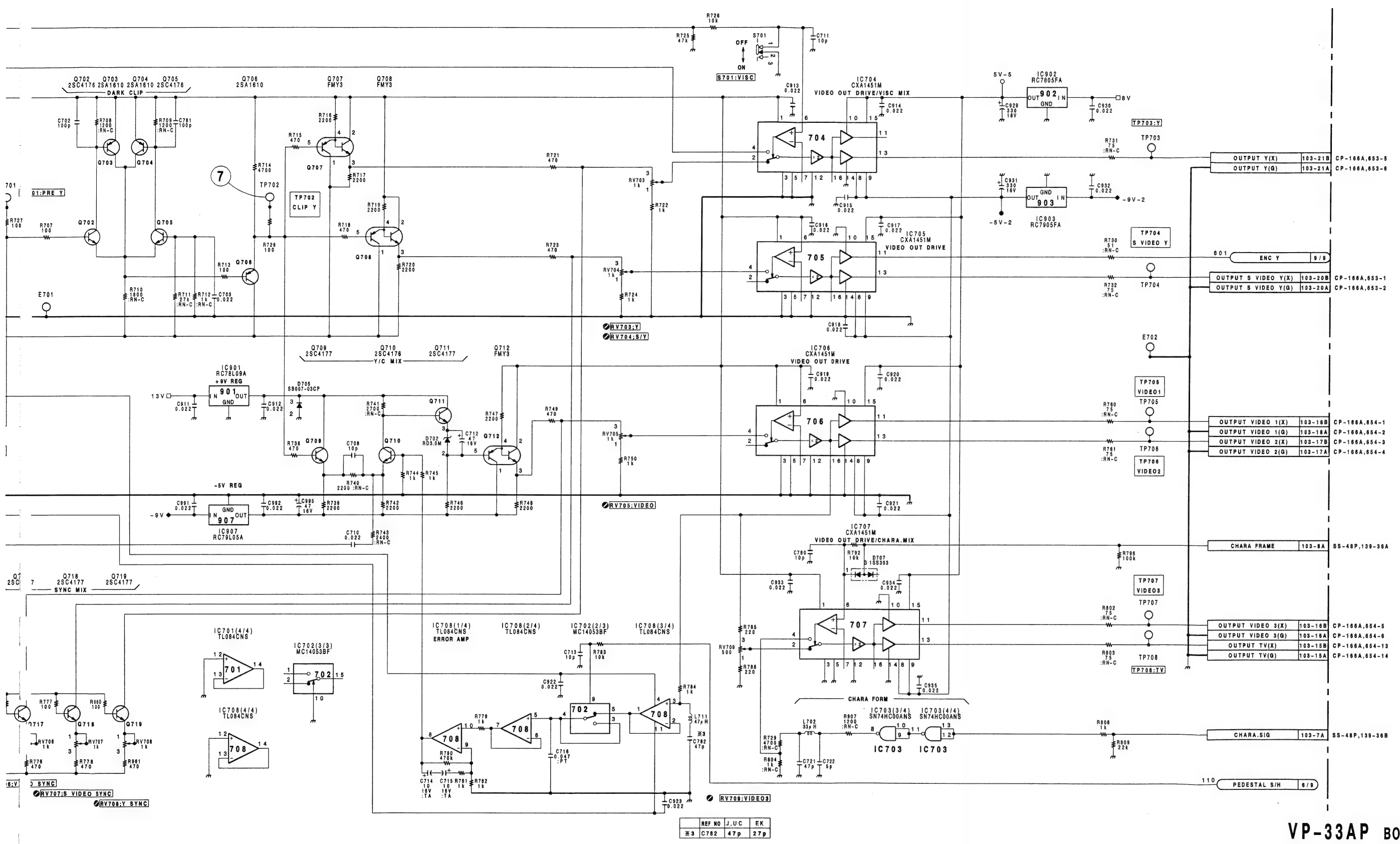
VP-33AP BOARD (4/9)

BOARD NO.1-640-032-13
PVW-2600P (EK);#12241-12950

Serial No.(EK);12241 to 12950

VP-33AP(5/9);COMPOSITE OUT DRIVER

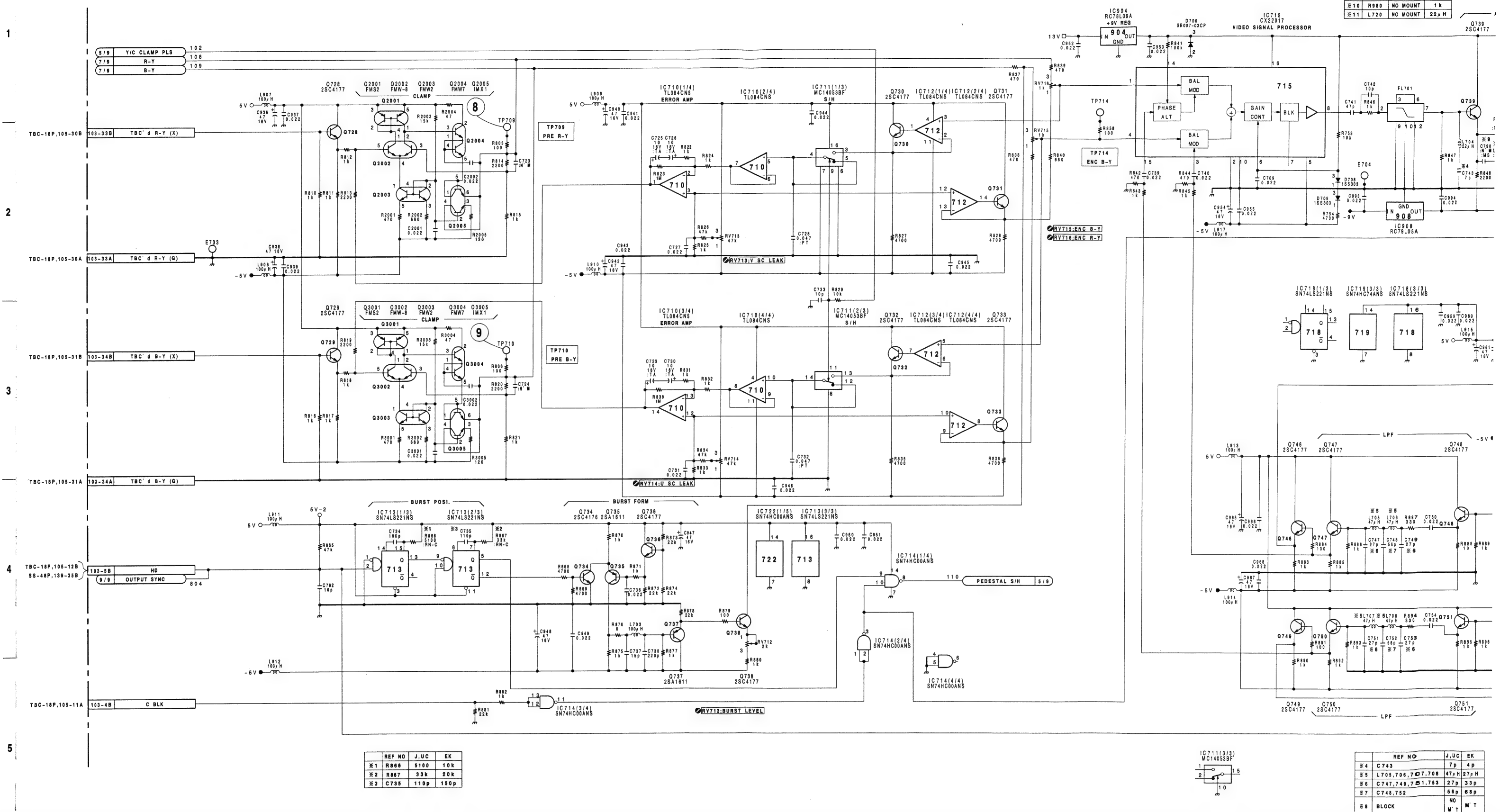


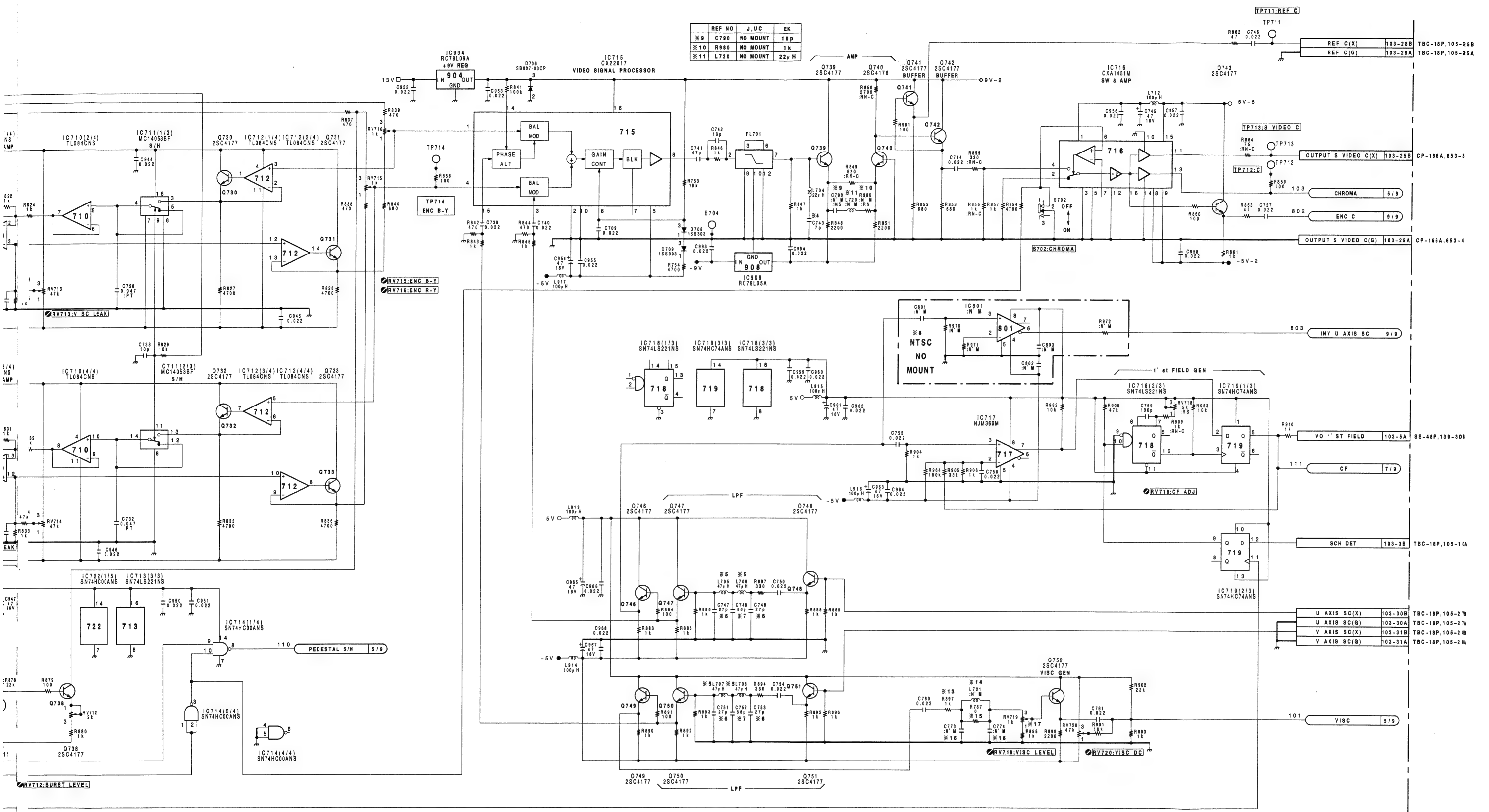


1
2
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4
5

Serial No.(EK);12241 to 12950

VP-33AP(6/9);ENCODER





REF NO	J,UC	EK
*4	C743	7p 4p
*5	L705,706,707,708	47pH 27pH
*6	C747,748,751,753	27p 33p
*7	C748,752	56p 68p
*8	BLOCK	NO M'T

REF NO	J,UC	EK
*9	C790	NO MOUNT 10p
*10	R980	NO MOUNT 1k
*11	L720	NO MOUNT 22pH

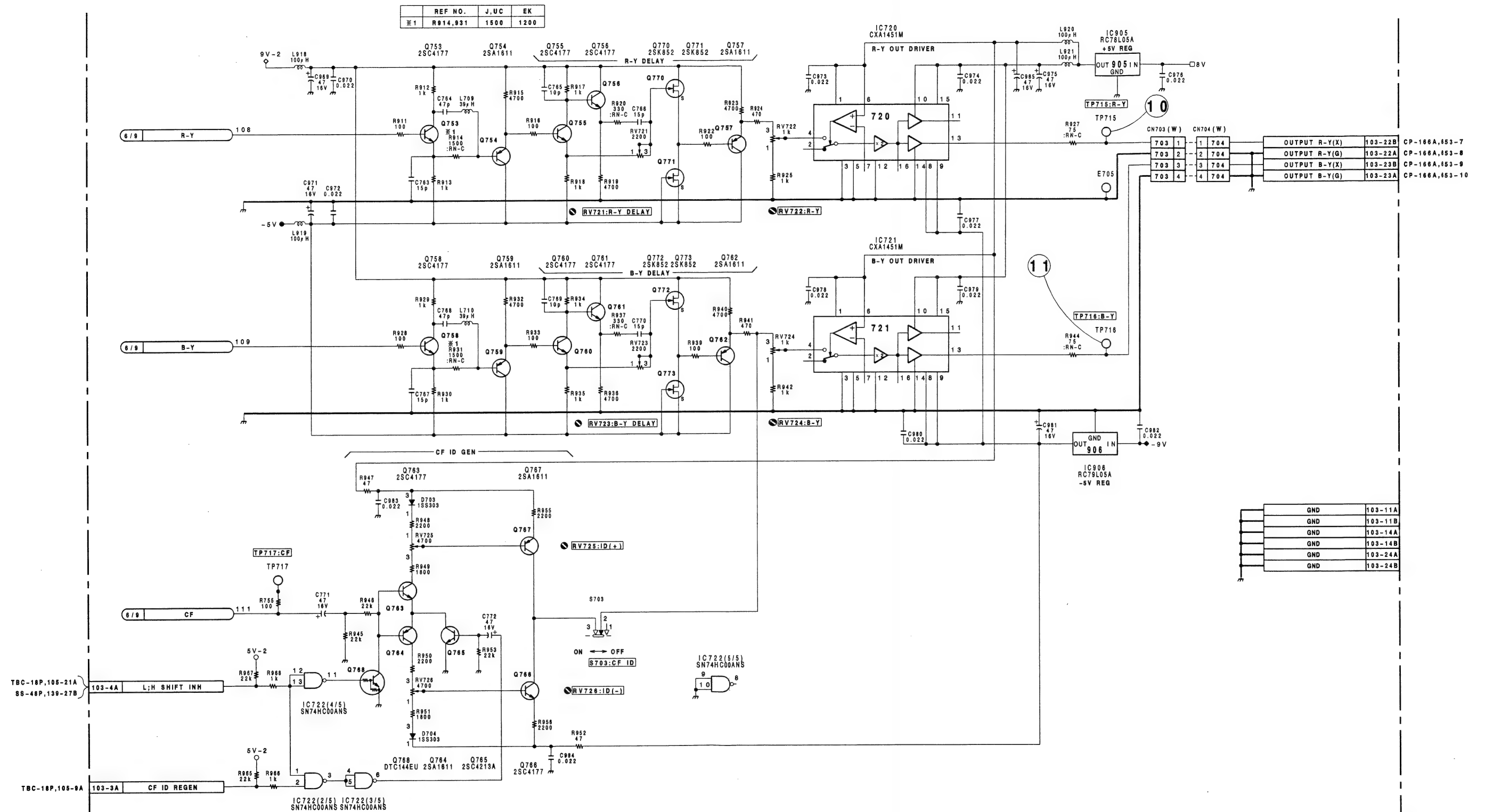
REF NO	J,UC	EK
*13	R897	1k 510
*14	L721	NO M'T 68uH
*15	R787	0 NO M'T
*16	C773,C774	NO M'T 68p
*17	R898	1k 220

VP-33AP BOARD (6/9)

BOARD NO.1-640-032-13
PVW-2600P(EK);#12241-12950

Serial No.(EK);12241 to 12950

VP-33AP(7/9);R-Y/B-Y OUT DRIVER

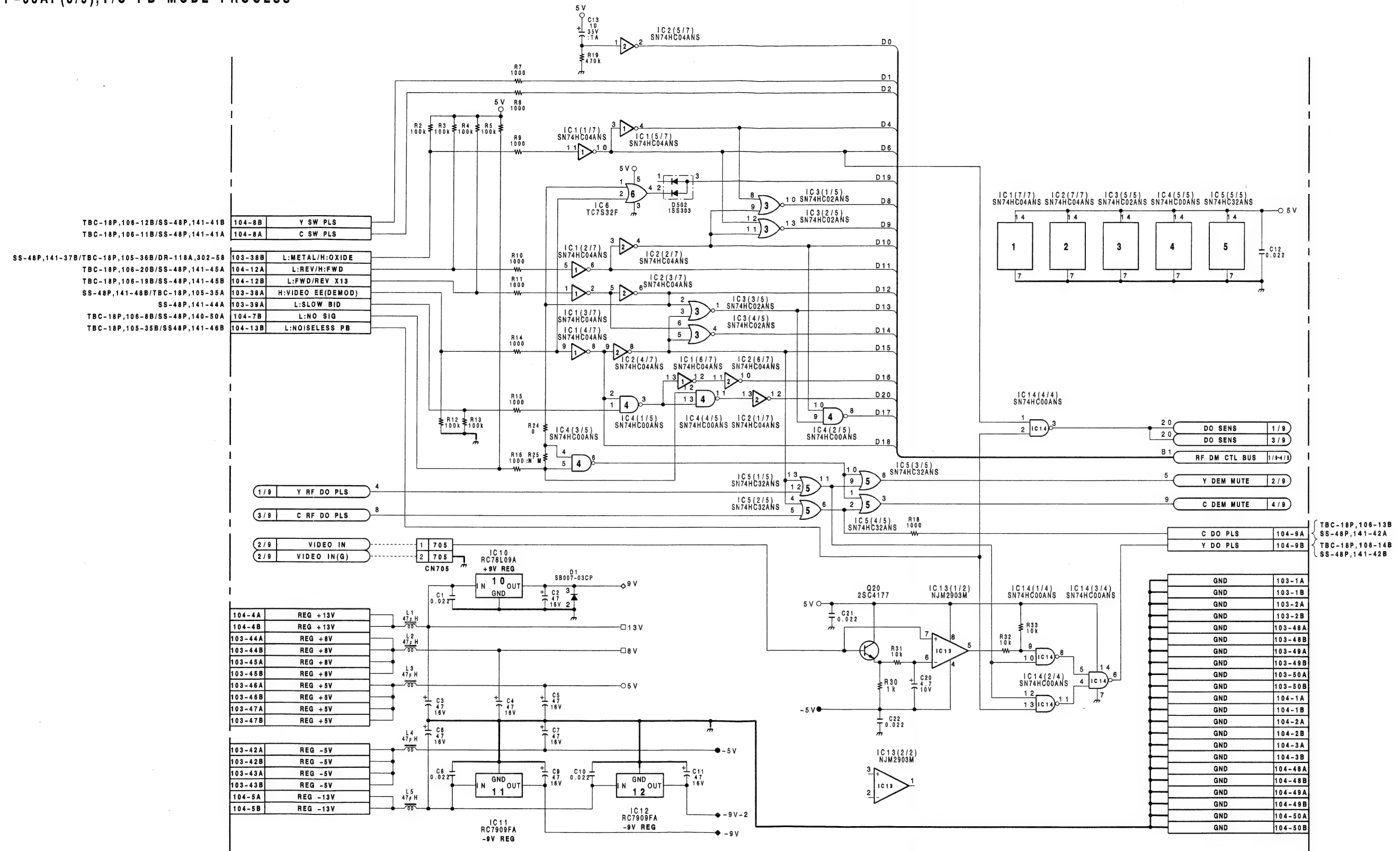


VP-33AP BOARD(7/9)

BOARD NO.1-640-032-13
PVW-2600P(EK);#12241-12950

Serial No.(EK);12241 to 12950

VP-33AP(8/9);Y/C PB MODE PROCESS

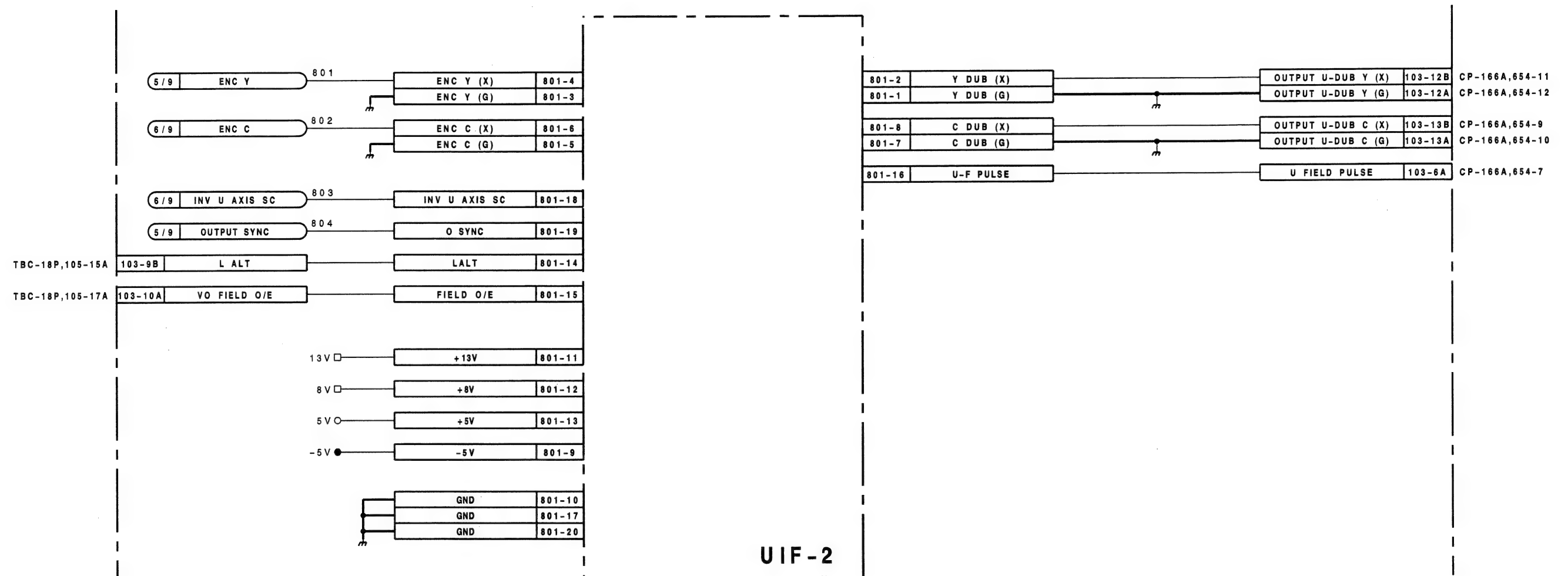


VP-33AP BOARD (8/9)

BOARD NO.1-640-032-13
PVW-2600P(EK);#12241-12950

Serial No.(EK);12241 to 12950

VP-33AP(9/9);U-DUB INTERFACE



UIF-2

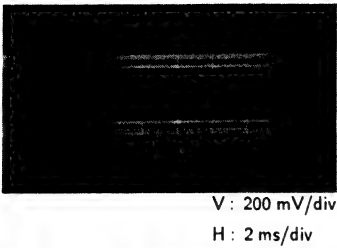
VP-33AP BOARD (9/9)

BOARD NO.1-640-032-13
PVW-2600P(EK);#12241-12950

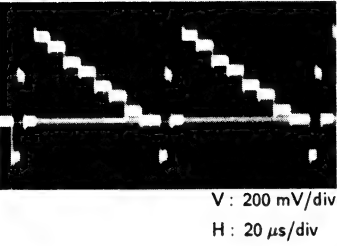
VP-33AP(1-640-032-12)

TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP202	D-1
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP502	J-2
TP504	H-2
TP505	G-3
TP701	M-3
TP702	N-4
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP709	K-6
TP710	J-6
TP711	M-6
TP712	M-4
TP713	M-6
TP714	K-4
TP715	K-1
TP716	K-1
TP717	L-1

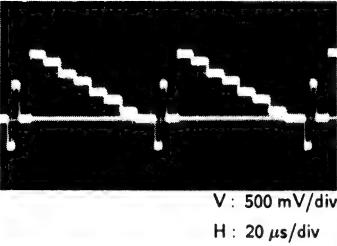
① TP201
PB



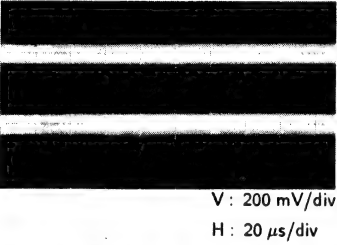
② TP202
PB



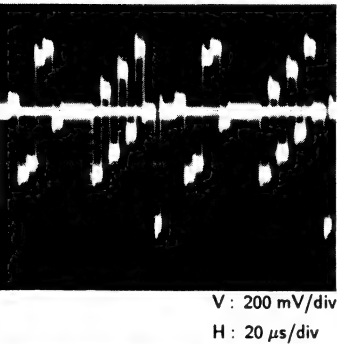
③ TP204
PB



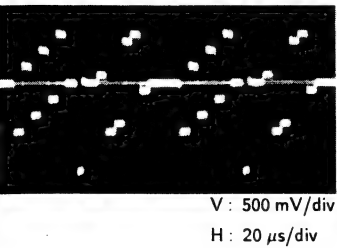
④ TP501
PB



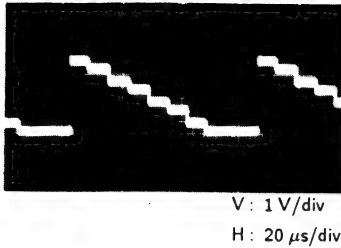
⑤ TP502
PB



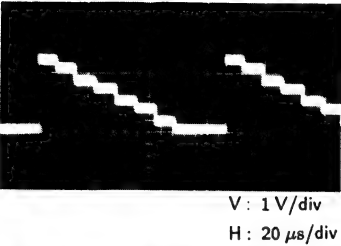
⑥ TP504
PB



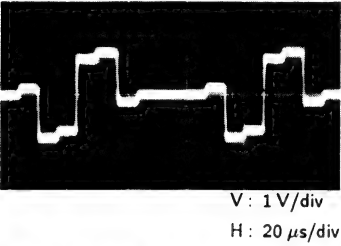
⑦ TP701
PB



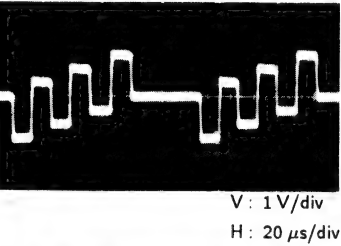
⑧ TP702
PB



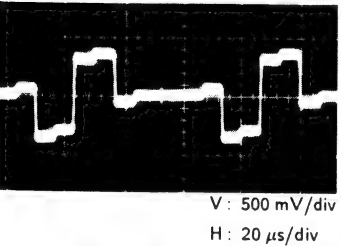
⑨ TP709
PB



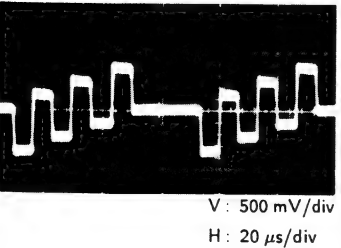
⑩ TP710
PB



⑪ TP715
PB



⑫ TP716
PB

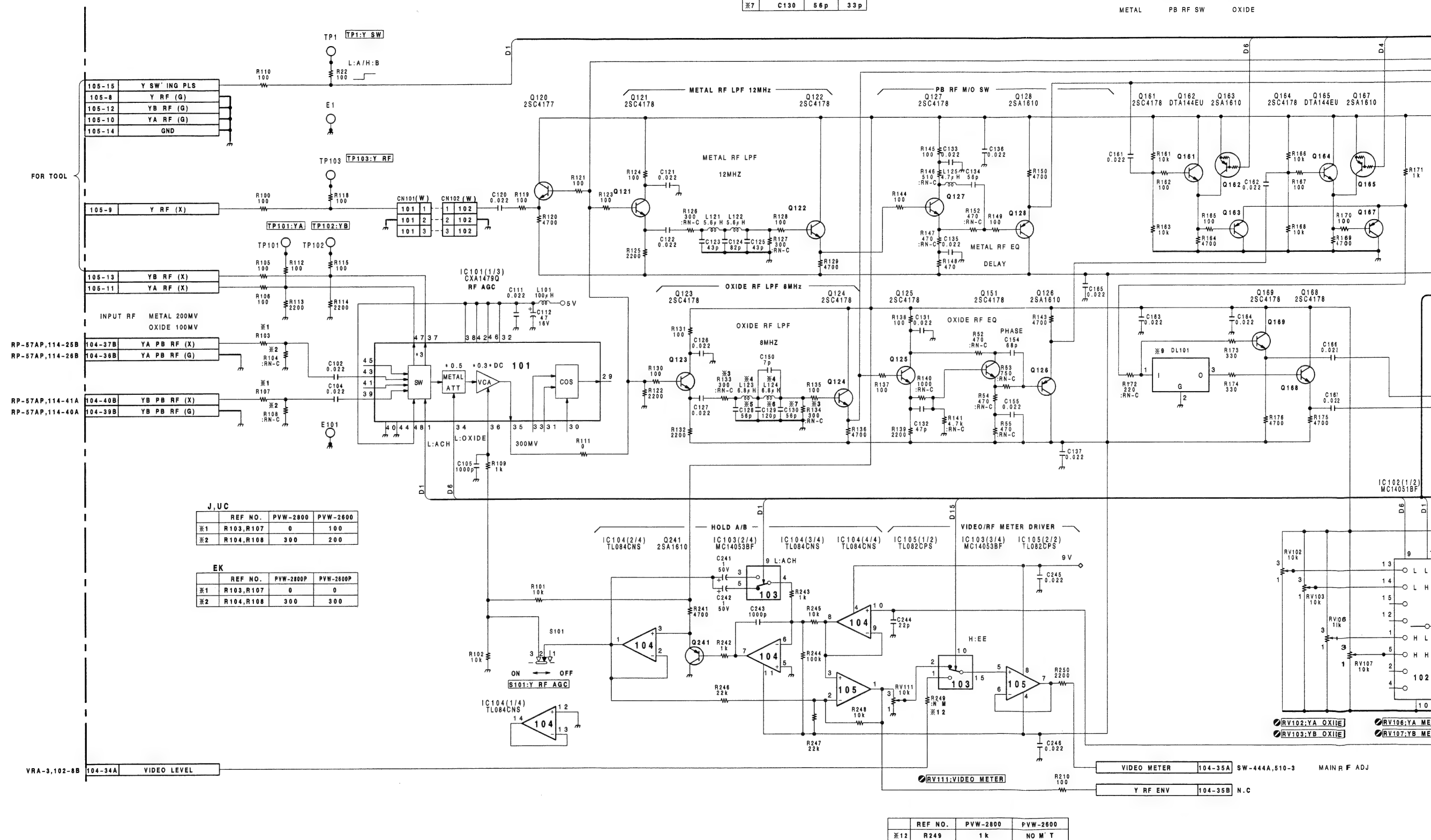


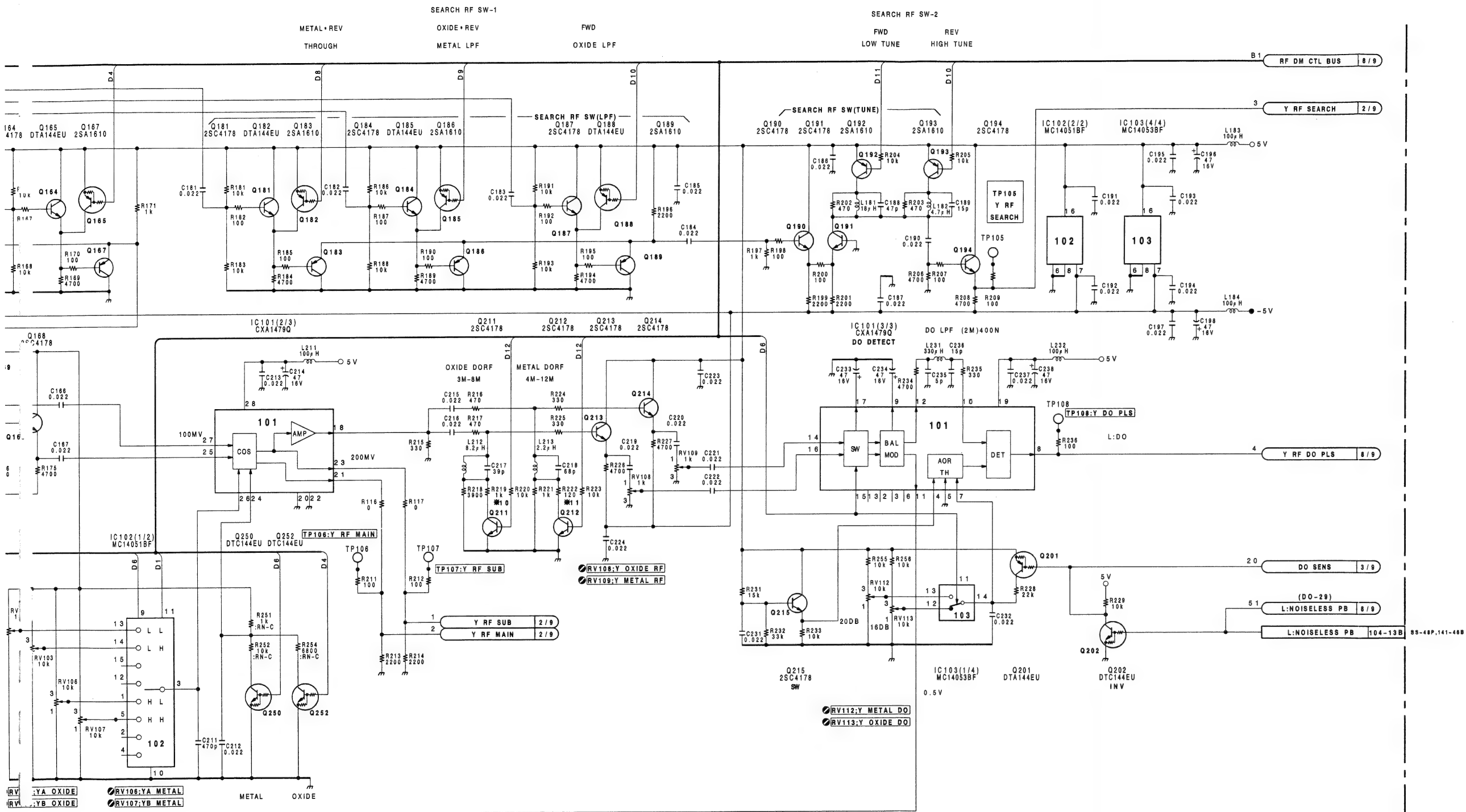
Serial No.(EK);10651 to 12240

VP-33AP(1/9);Y RF AGC,Y DO ENVELOPE DETECT

REF NO.	J,UC	EK
*3	R133,R134	300 330
*4	L123,L124	6.8μH 10μH
*5	C128	56p 33p
*6	C129	120p 100p
*7	C130	56p 33p

REF NO.	J,UC	EK
*9	DL101	1-415-548-11 1-415-154-31
		50ns 35ns
	FC	5MHz 7MHz
	METAL	PB RF SW OXIDE

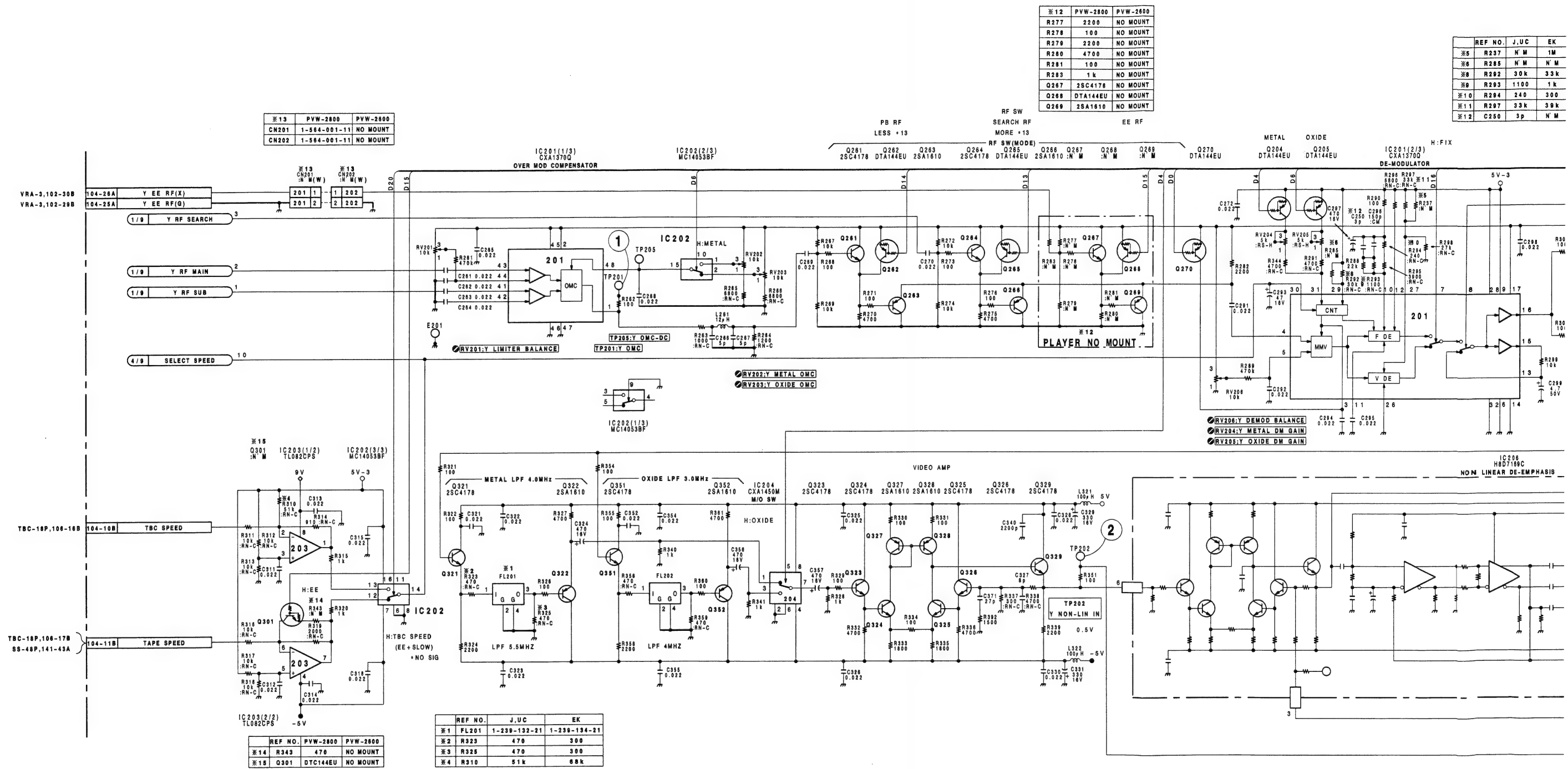




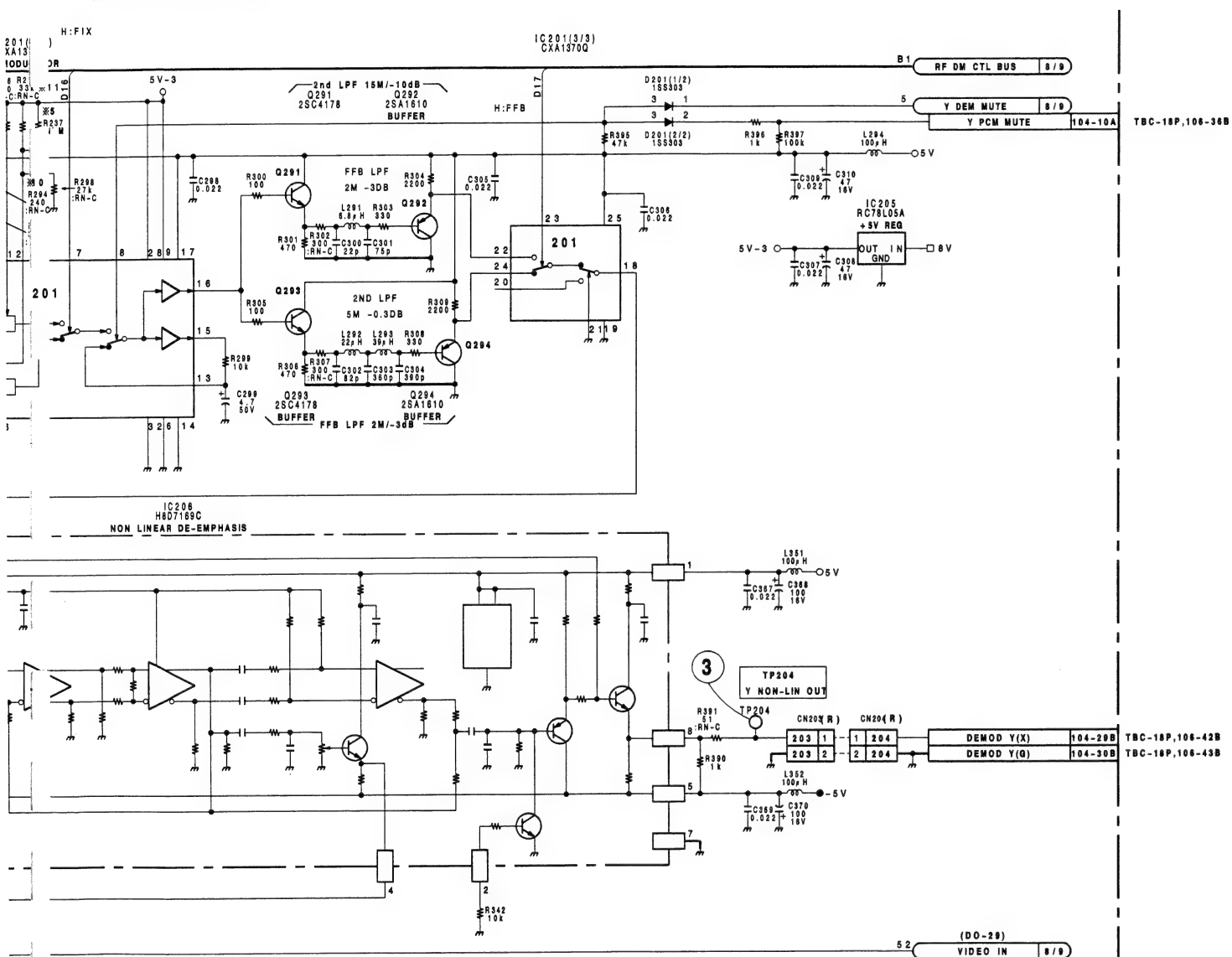
REF NO.	J,UC	EK
R219	J,UC	EK
PVW-2800	680	680
PVW-2600	1k	680

VP-33AP BOARD (1/9)

BOARD NO.1-640-032-12
PVW-2600P(EK);#10651-12240



	REF NO.	J,UC	EK
※5	R237	N' M	1M
※6	R265	N' M	N' M
※8	R292	30 k	33 k
※9	R293	1100	1 k
※10	R294	240	300
※11	R297	33 k	39 k
※12	C250	3 p	N' M

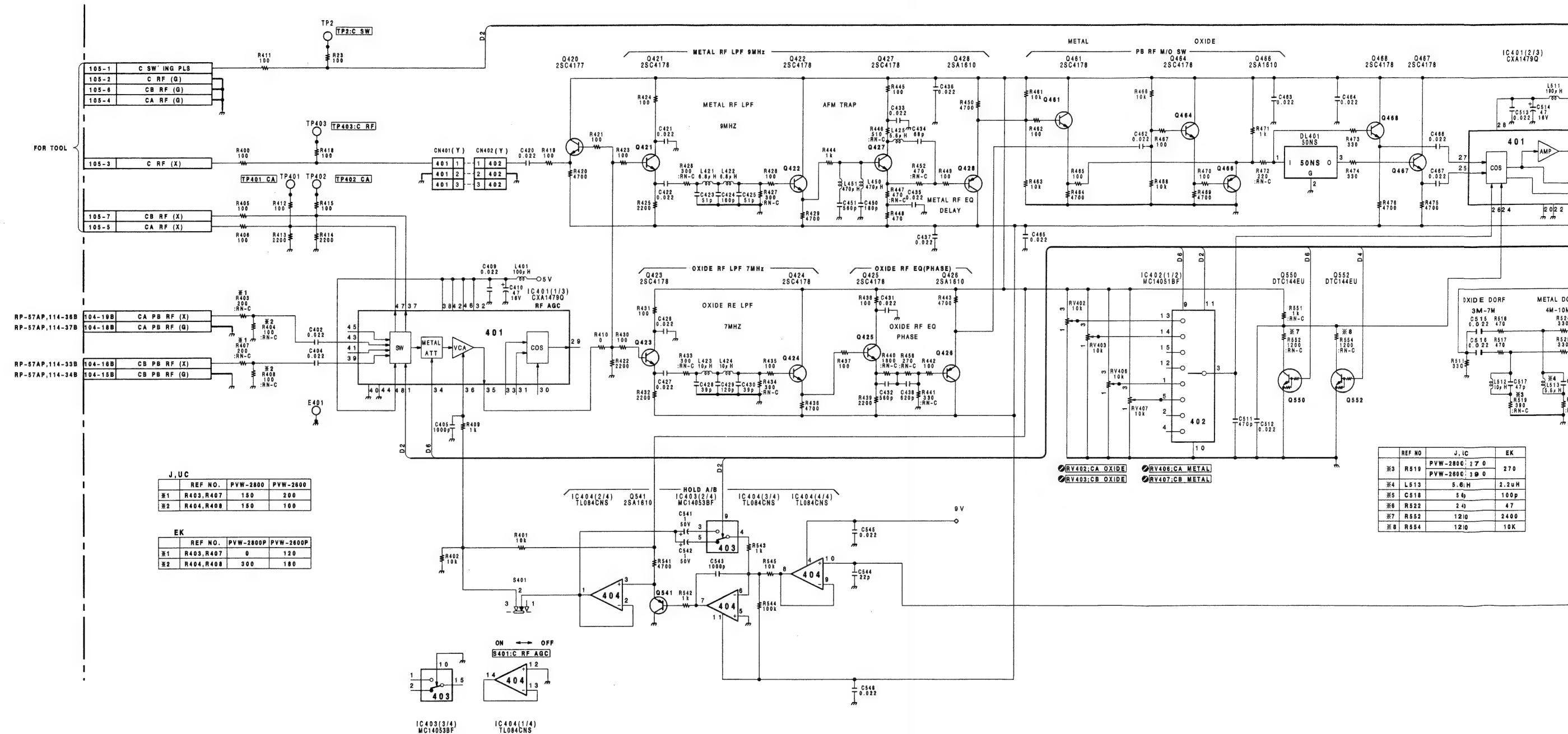


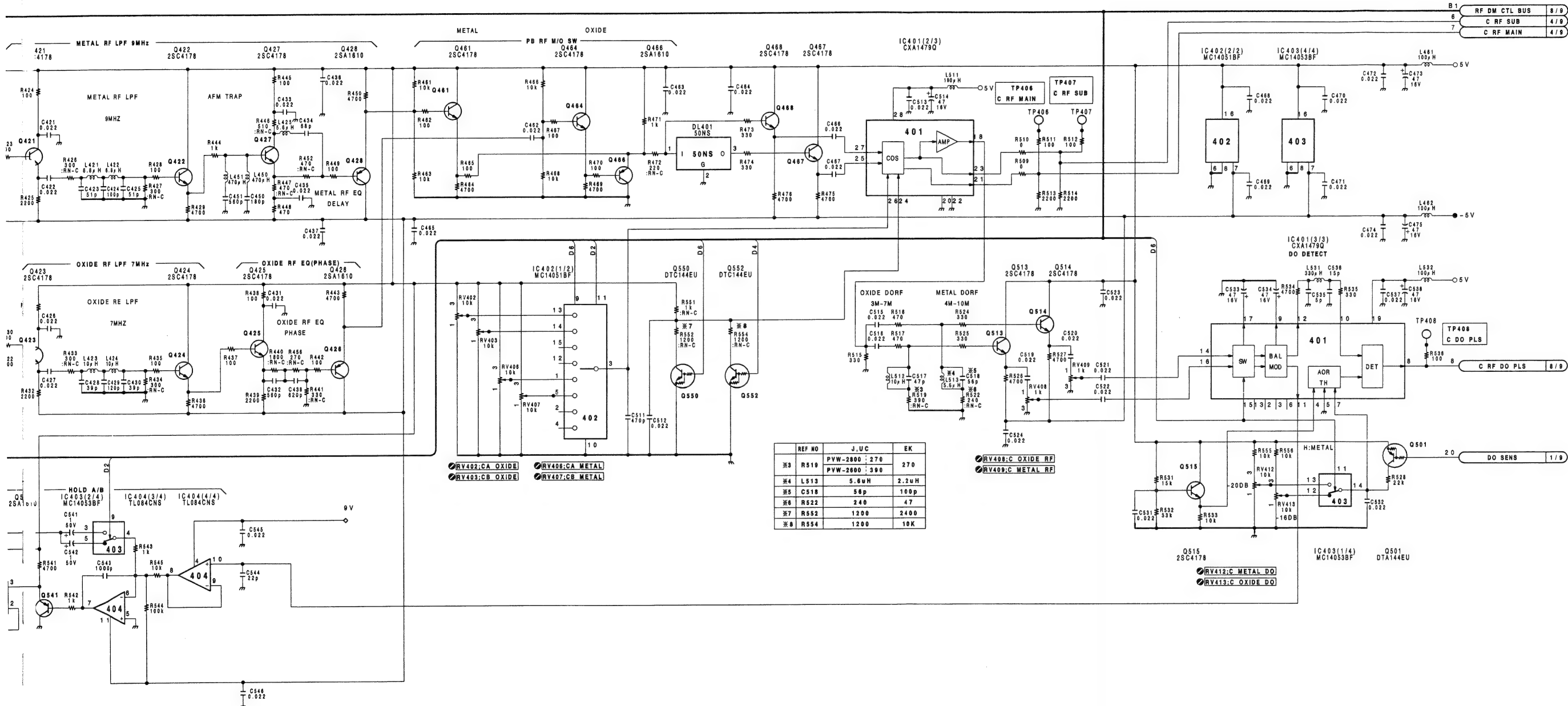
VP-33AP BOARD (2 / 9)

BOARD NO.1-640-032-12
PVW-2600P(EK) ; #10651-12240

Serial No.(EK);10651 to 12240

VP-33AP(3/9);C PB EQ,C RF AGC,DO DETECT

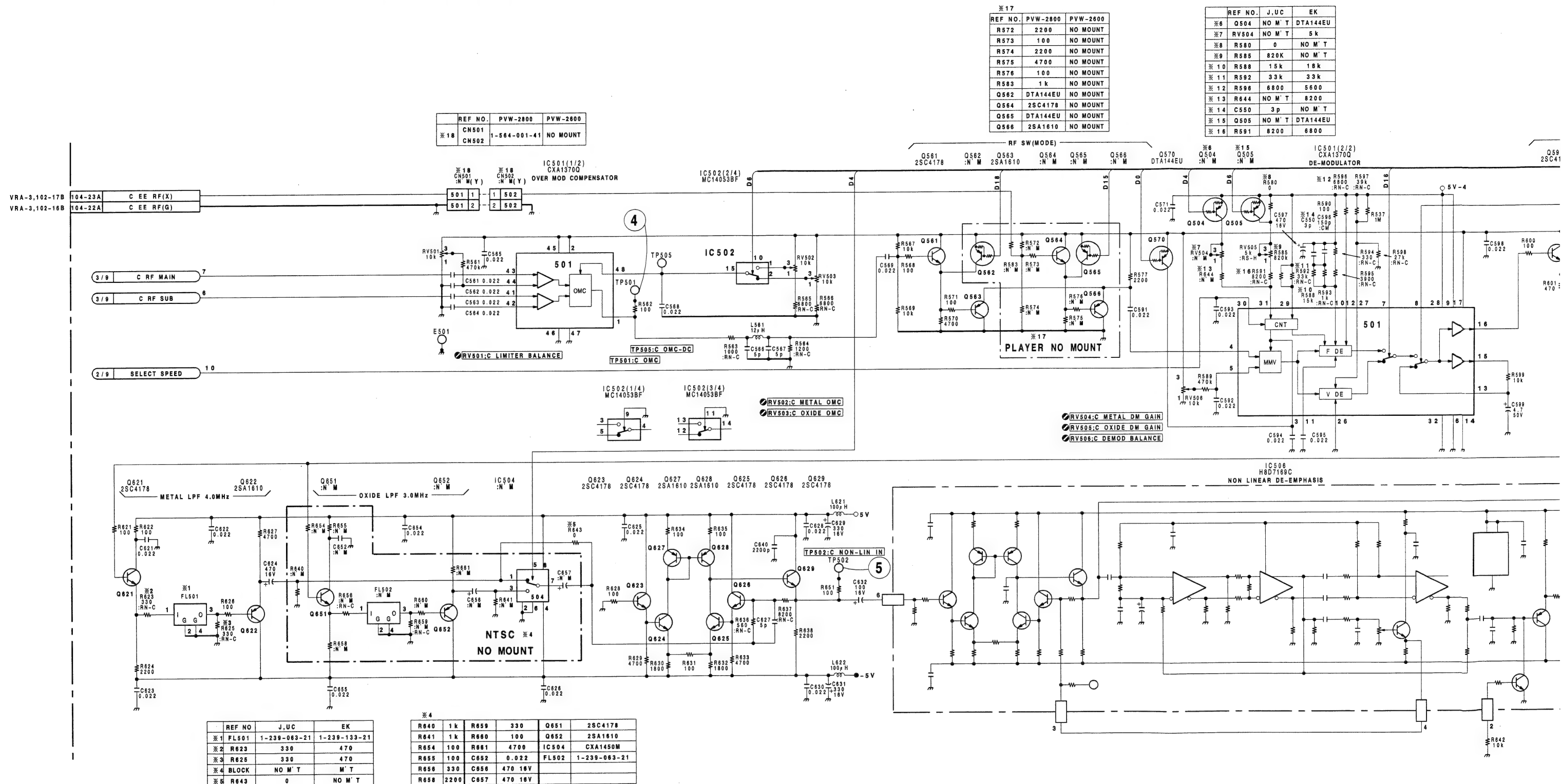




VP-33AP BOARD (3/9)
BOARD NO.1-640-032-12
PVW-2600P(EK);#10651-12240

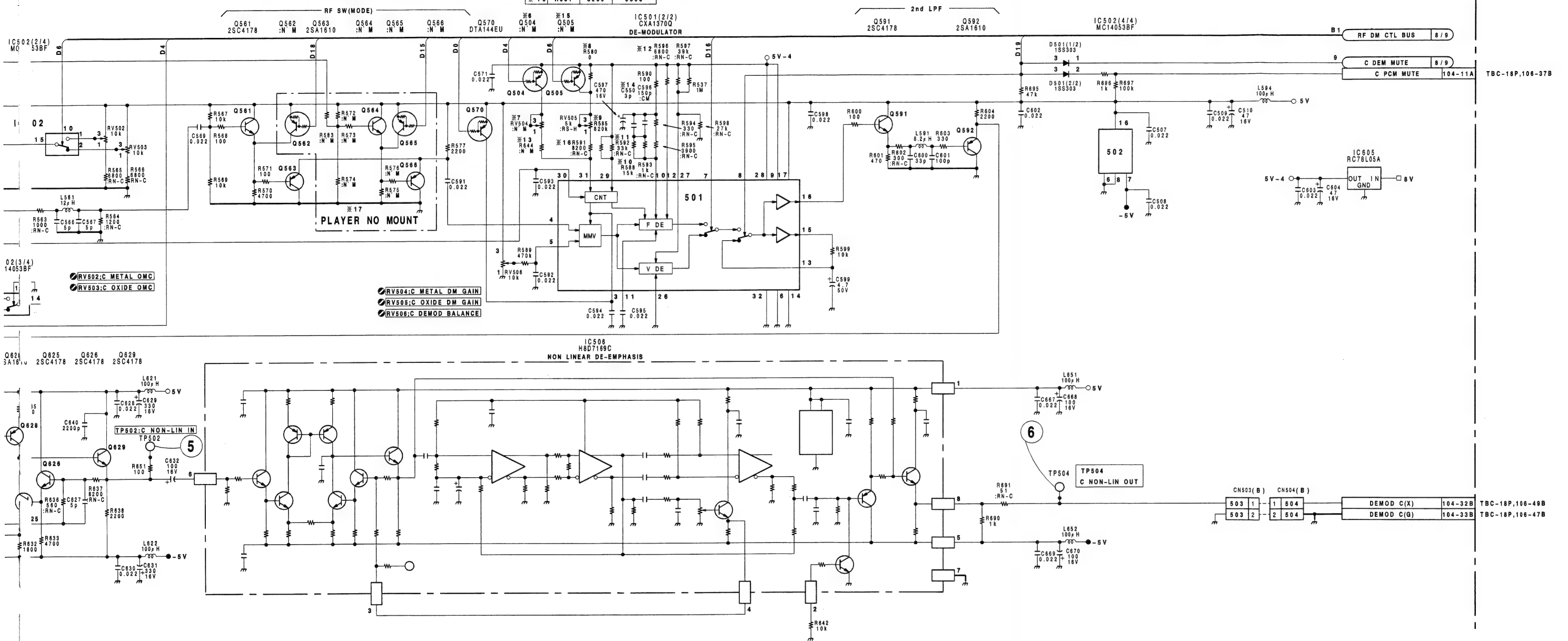
Serial No.(EK);10651 to 12240

VP-33AP(4/9);DE-MODULATOR, NON LINEAR DE-EMPHASIS



※ 17		
REF NO.	PVW-2800	PVW-2600
R572	2200	NO MOUNT
R573	100	NO MOUNT
R574	2200	NO MOUNT
R575	4700	NO MOUNT
R576	100	NO MOUNT
R583	1k	NO MOUNT
Q562	DTA144UE	NO MOUNT
Q564	2SC4178	NO MOUNT
Q565	DTA144UE	NO MOUNT
Q566	2SA1810	NO MOUNT

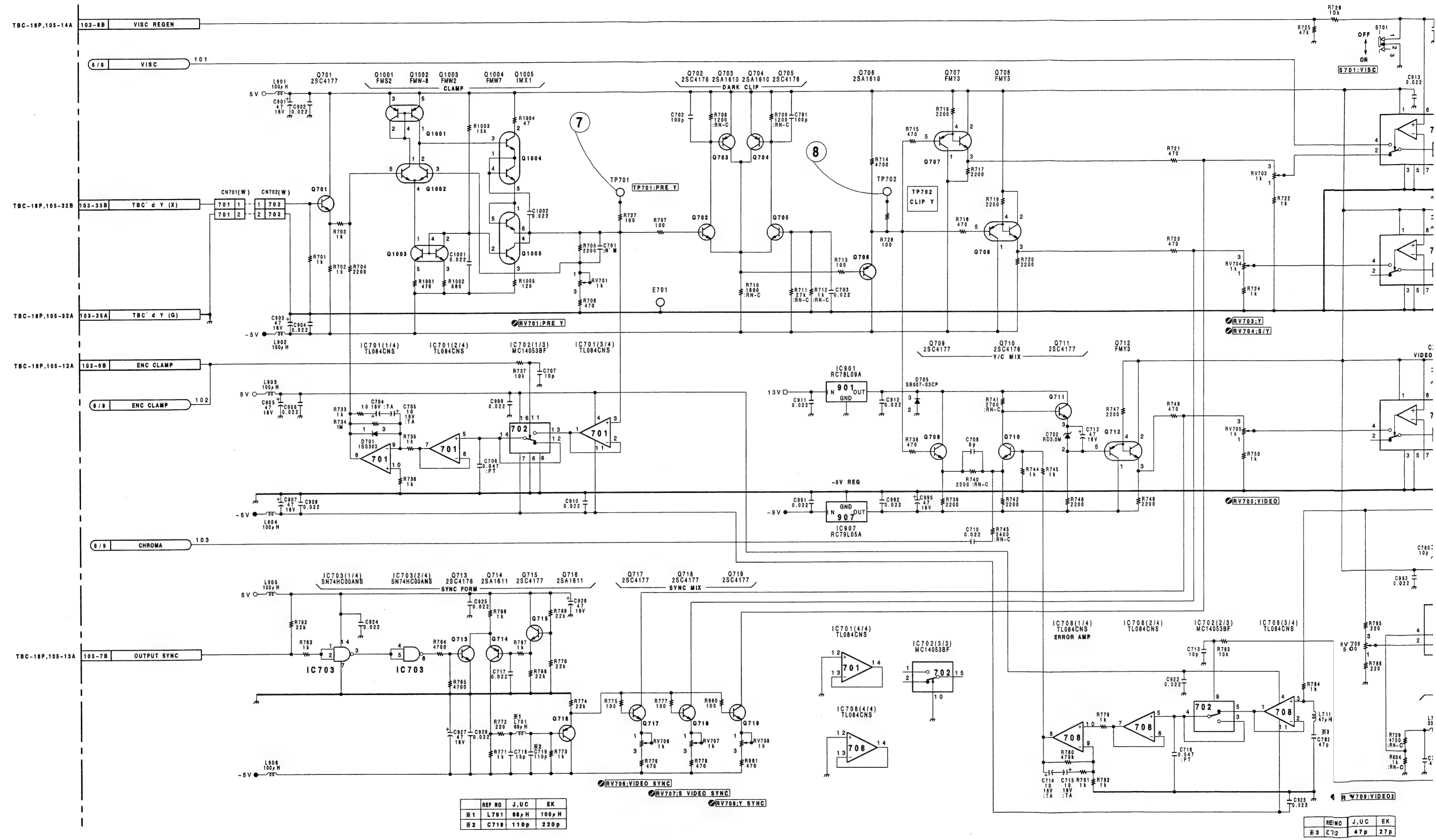
	REF NO.	J,UC	EK
※6	Q504	NO M' T	DTA144EU
※7	RV504	NO M' T	5 k
※8	R580	0	NO M' T
※9	R585	820K	NO M' T
※10	R588	15 k	18 k
※11	R592	33 k	33 k
※12	R596	6800	5600
※13	R644	NO M' T	8 200
※14	C550	3 p	NO M' T
※15	Q505	NO M' T	DTA144EU
※16	R591	8200	6800

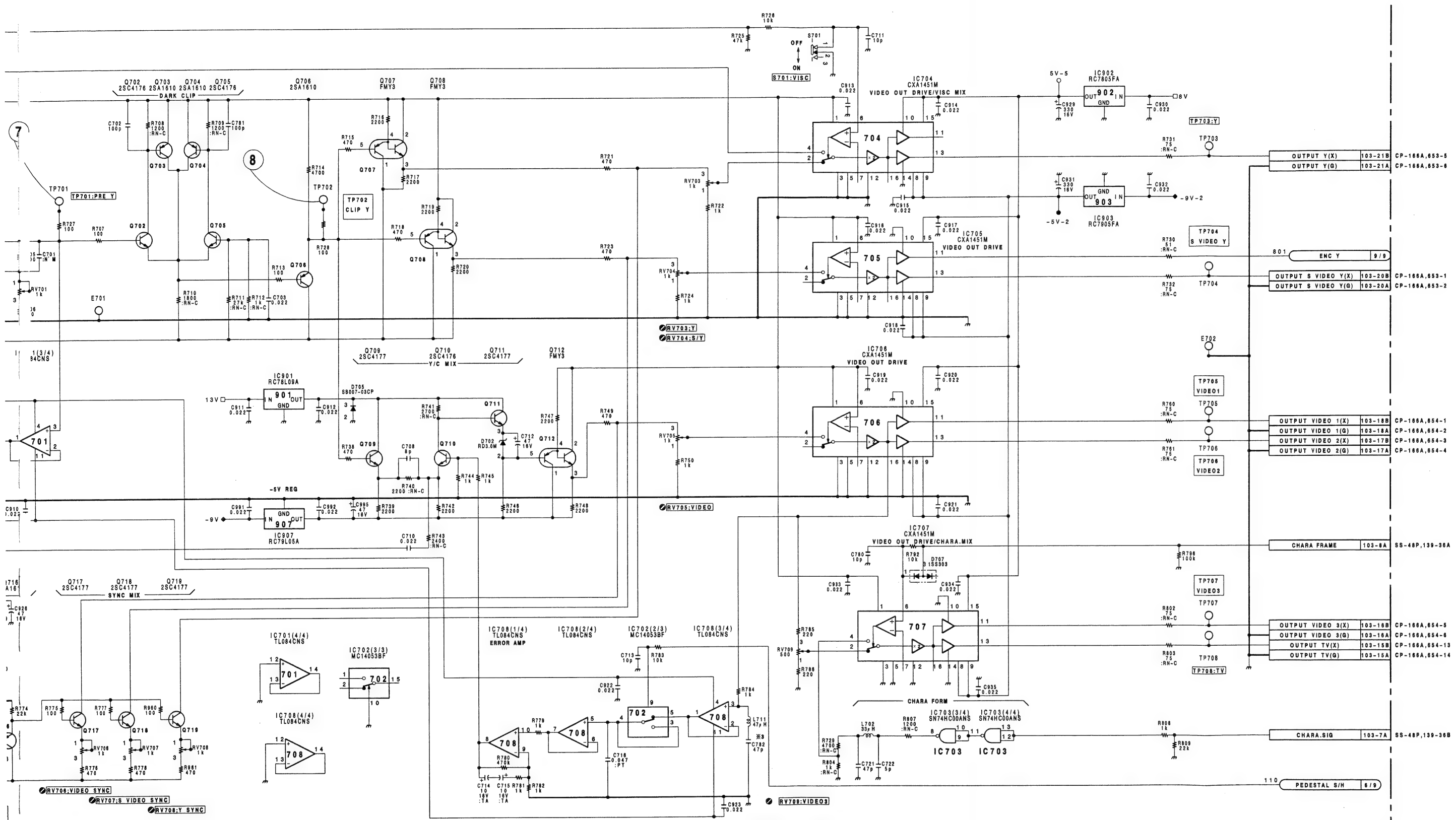


VP-33AP BOARD (4 / 9)

BOARD NO.1-640-032-12
PVW-2600P (EK);#10651-12240

VP-33AP(5/9);COMPOSITE OUT DRIVER





REF NO	J	U.C	EK
3	C782	47p	27p

VP-33AP BOARD (5/9)

BOARD NO.1-640-032-12
PVW-2600P(EK);#10651-12240

11(b)

E

F

G

H

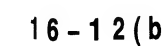
I

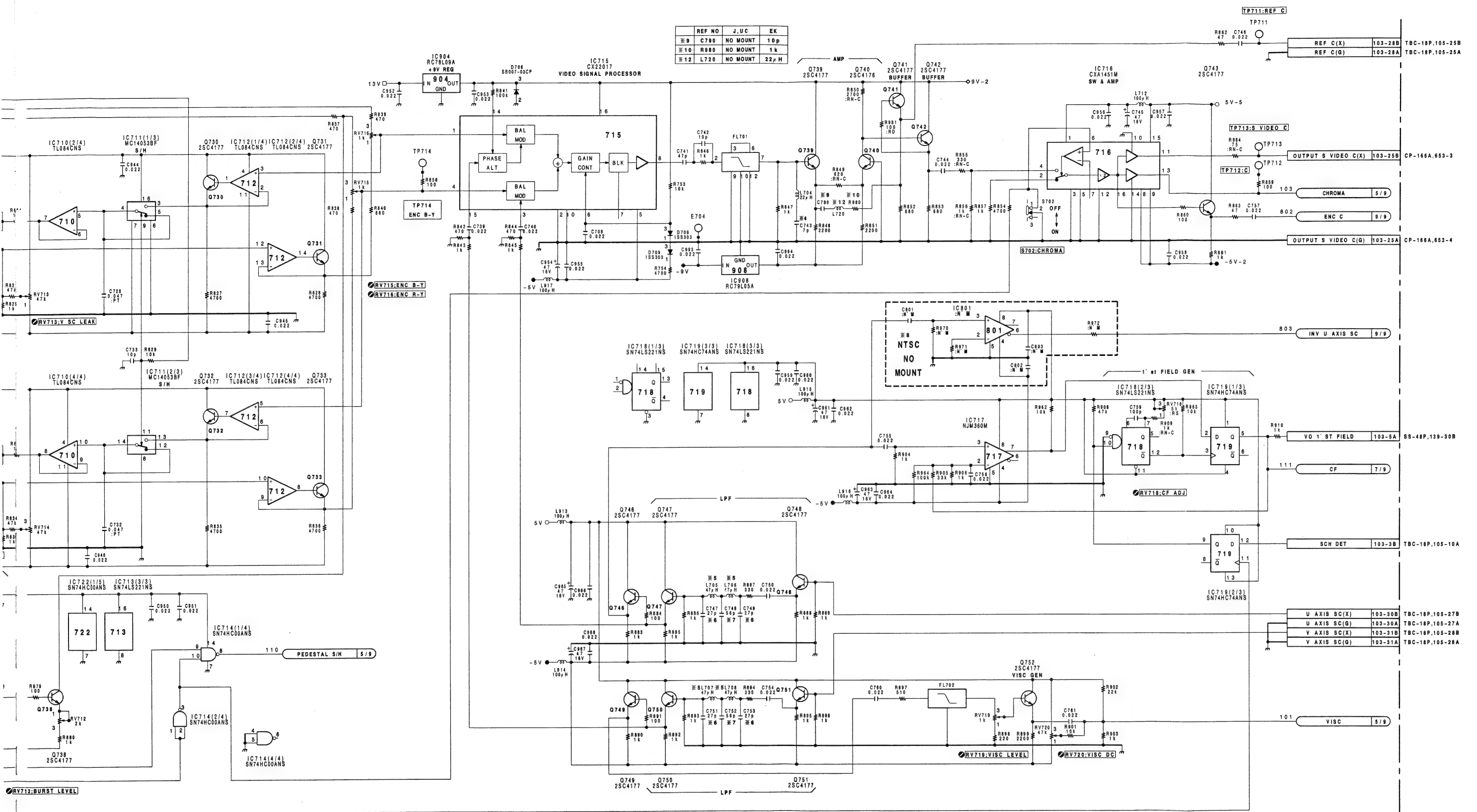
J

K

16-11(b)
L

VP-33AP(6/9);ENCODER





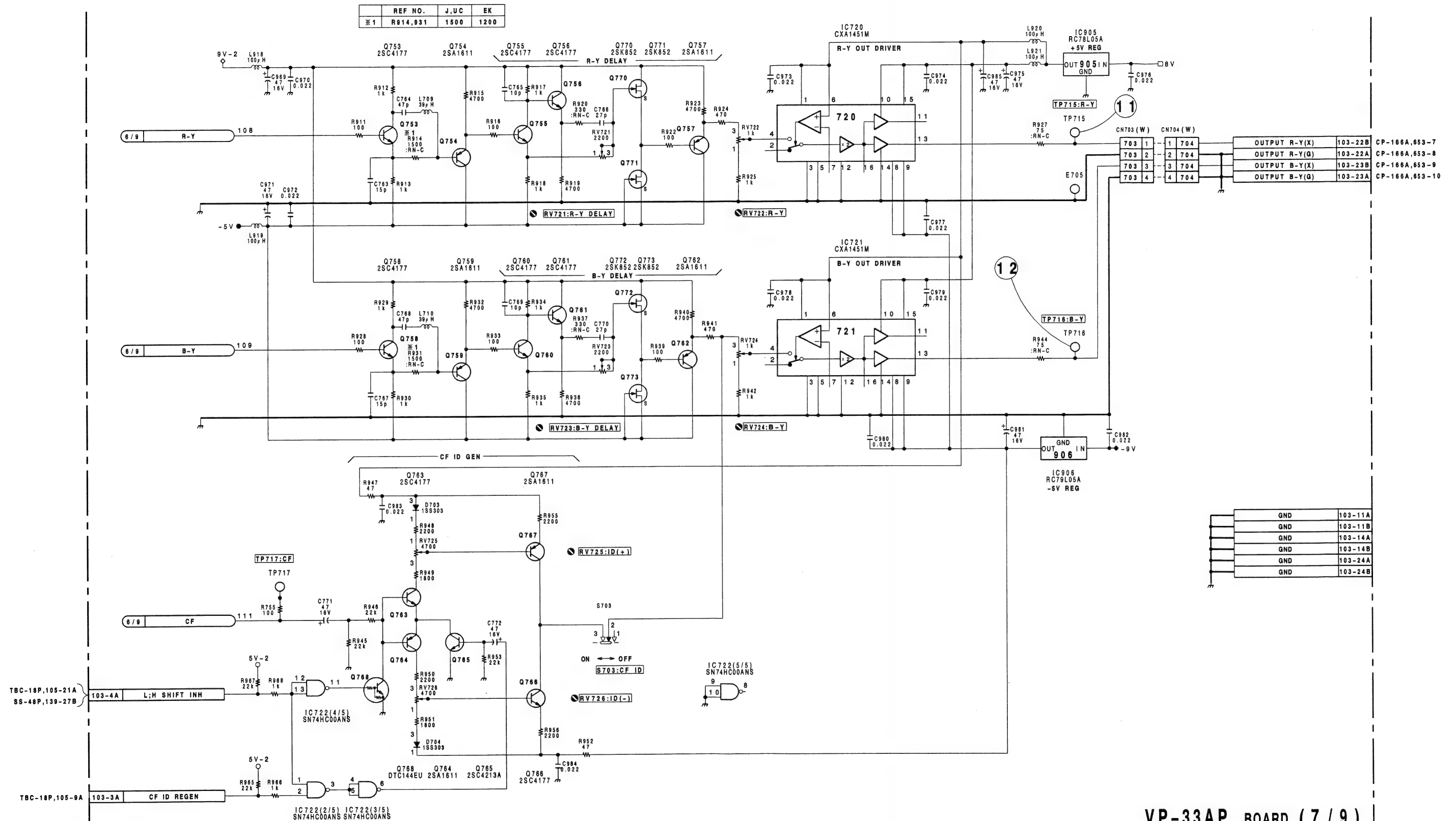
REF NO	J.U.C	EK
※4 C743	7p	4p
※5 L705,706,707,708	47pH	27pH
※6 C747,748,751,753	27p	33p
※7 C746,752	56p	88p
※8 BLOCK	NO	M'T

※8	REF NO	J.U.C	EK
	R970	1k	C801 0.022
	R971	220	C802 0.022
	R972	47	C803 0.022
	IC801		NJM360M

VP-33AP BOARD (6/9)

BOARD NO.1-640-032-12
PVW-2600P(EK);#10651-12240

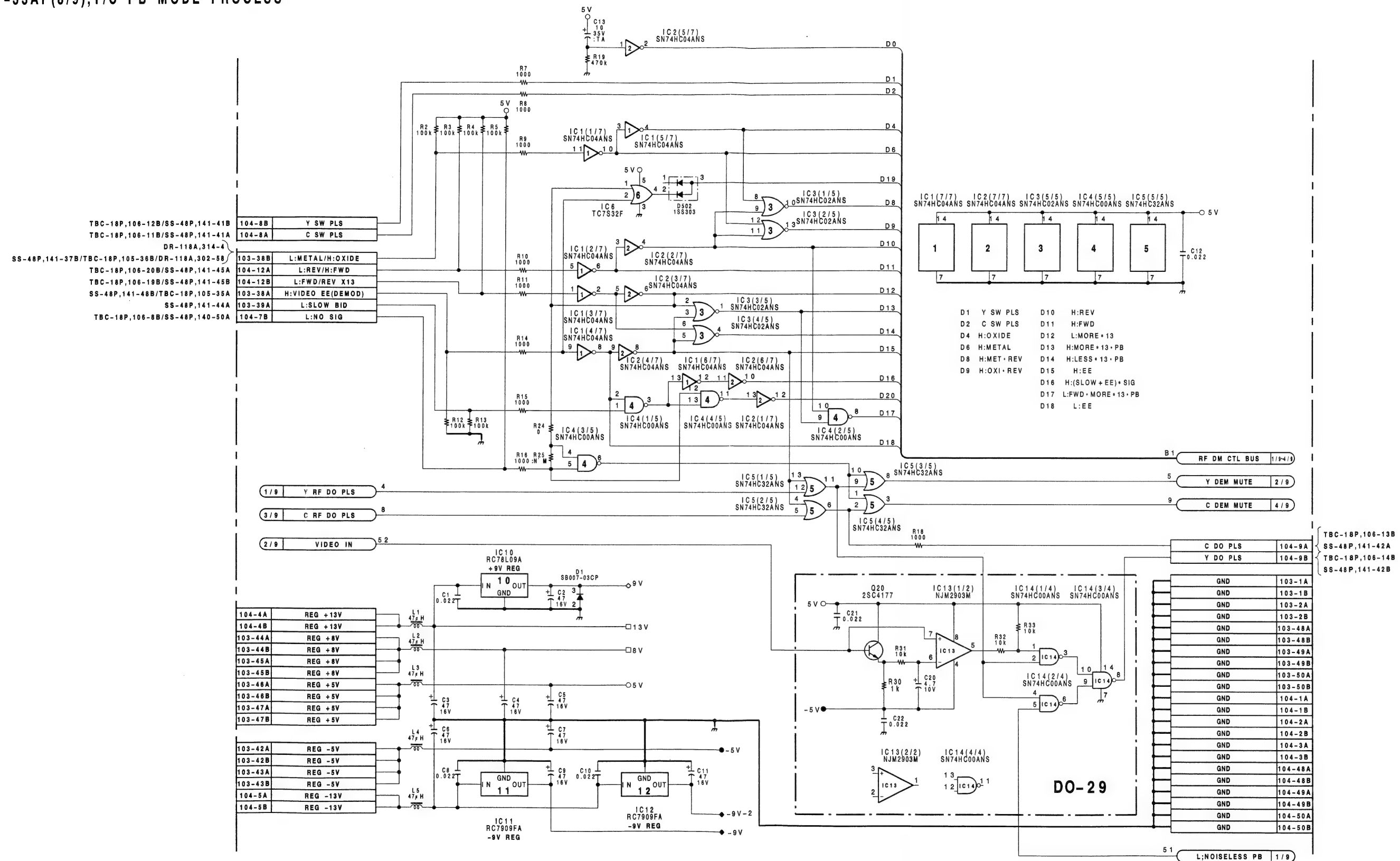
VP-33AP(7/9);R-Y/B-Y OUT DRIVER



VP-33AP BOARD (7/9)

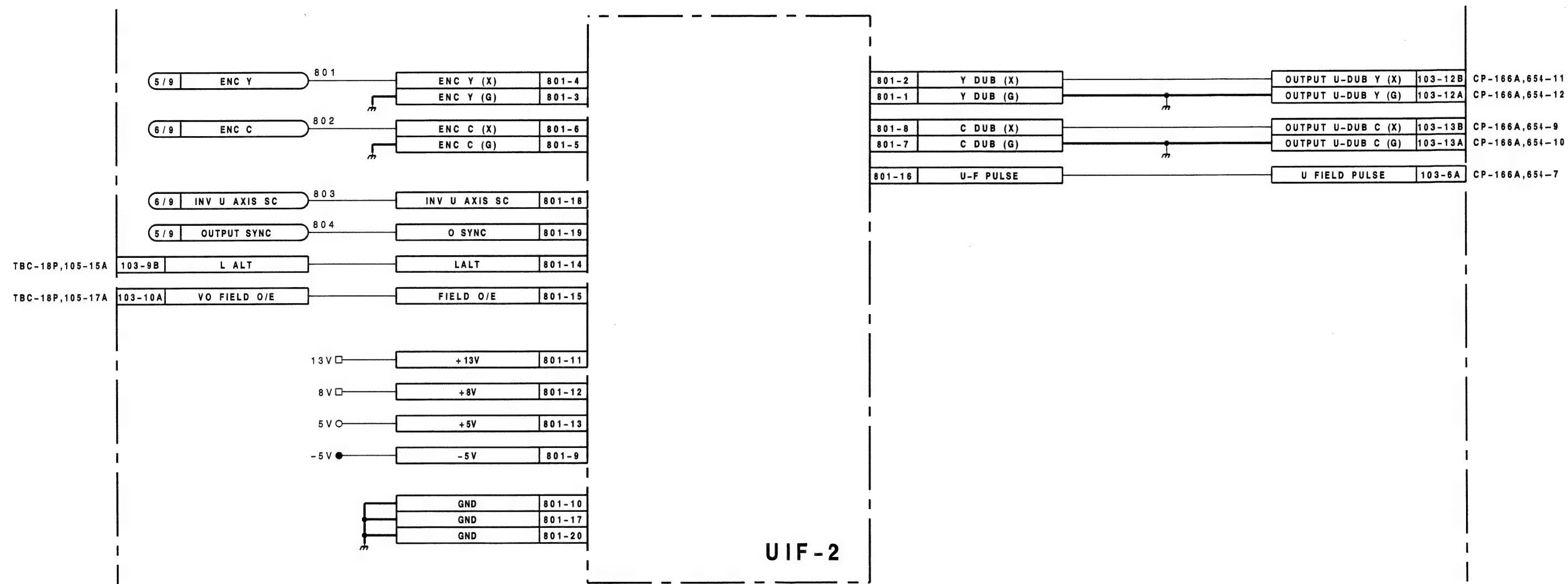
BOARD NO.1-640-032-12
 PVW-2600P (EK);#10651-12240

VP-33AP(8/9);Y/C PB MODE PROCESS



Serial No.(EK);10651 to 12240

VP-33AP(9/9);U-DUB INTERFACE



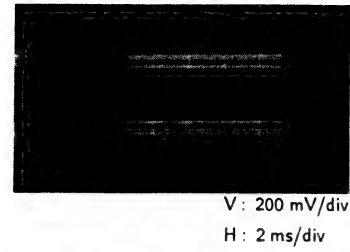
VP-33AP BOARD (9/9)

BOARD NO.1-640-032-12
PVW-2600P(EK);#10651-12240

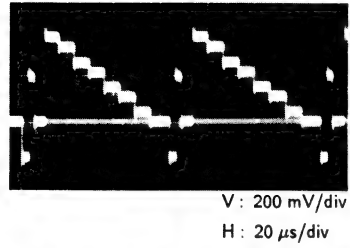
VP-33AP(1-640-032-11)

TP1	D-1
TP2	F-1
TP101	D-1
TP102	C-1
TP103	D-1
TP105	C-4
TP106	B-4
TP107	A-4
TP108	D-6
TP201	B-4
TP202	D-1
TP204	C-1
TP205	C-3
TP401	F-1
TP402	F-1
TP403	F-1
TP406	F-4
TP407	F-4
TP408	H-6
TP501	G-4
TP502	J-2
TP504	H-2
TP505	G-3
TP701	M-3
TP702	N-4
TP703	M-6
TP704	N-6
TP705	N-6
TP706	N-6
TP707	P-6
TP708	P-6
TP709	K-6
TP710	J-6
TP711	M-6
TP712	M-4
TP713	M-6
TP714	K-4
TP715	K-1
TP716	K-1
TP717	L-1

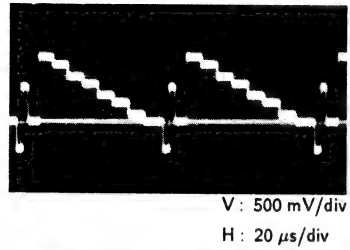
① TP201
PB



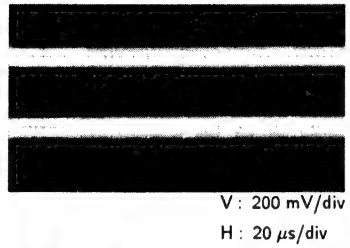
② TP202
PB



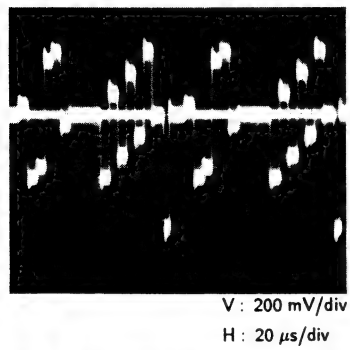
③ TP204
PB



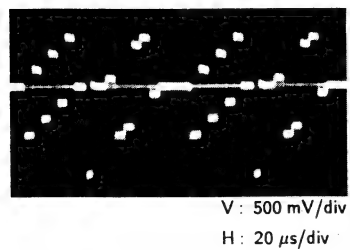
④ TP501
PB



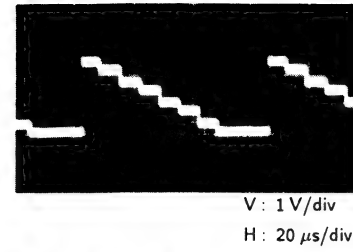
⑤ TP502
PB



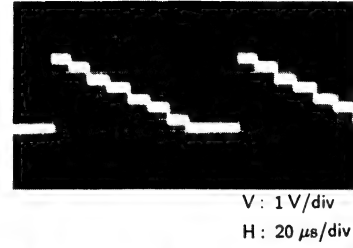
⑥ TP504
PB



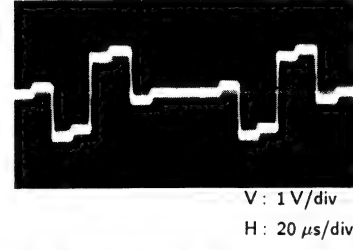
⑦ TP701
PB



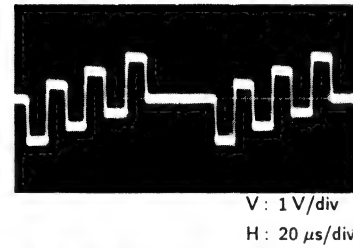
⑧ TP702
PB



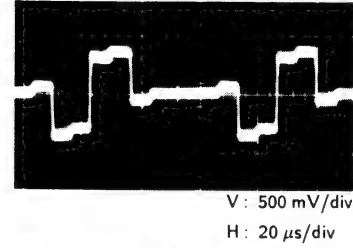
⑨ TP709
PB



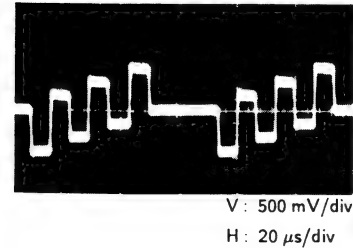
⑩ TP710
PB



⑪ TP715
PB



⑫ TP716
PB

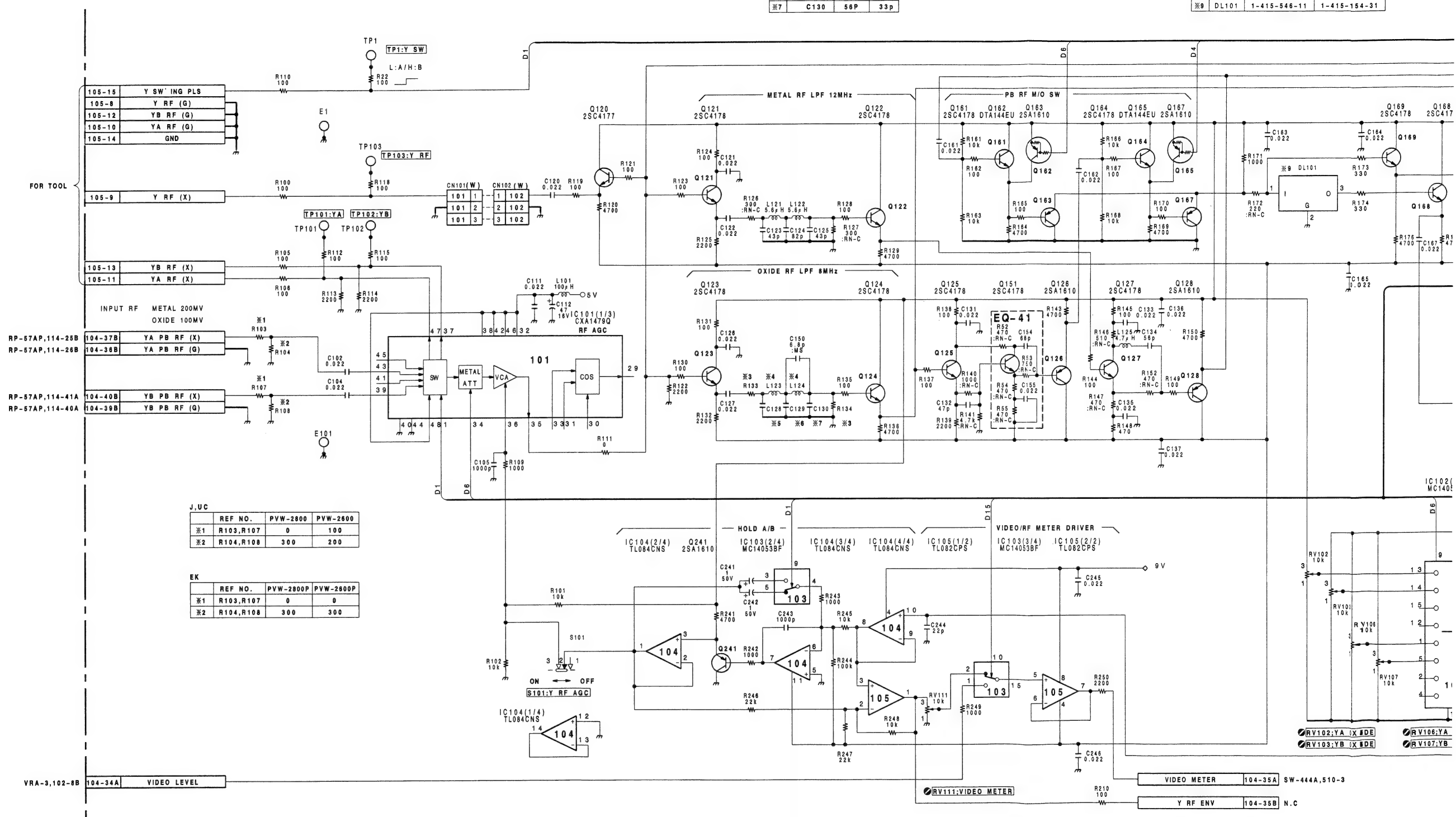


Serial No.(EK);10001 to 10650

VP-33AP(1/9);Y RF AGC,Y DO ENVELOPE DETECT

	REF NO.	J,UC	EK
※3	R133,R134	300	330
※4	L123,L124	6.8μH	10μH
※5	C128	56P	33P
※6	C129	120P	100P
※7	C130	56P	33P

	REF NO.	J,UC	EK
※9	DL101	1-415-546-11	1-415-154-31



J,UC	REF NO.	PVW-2800	PVW-2600
※1	R103,R107	0	100
※2	R104,R108	300	200

EK	REF NO.	PVW-2800P	PVW-2600P
※1	R103,R107	0	0
※2	R104,R108	300	300

Serial No.(EK);10001 to 10650

VP-33AP(2/9);DE-MODULATOR, NON LINEAR DE-EMPHASIS

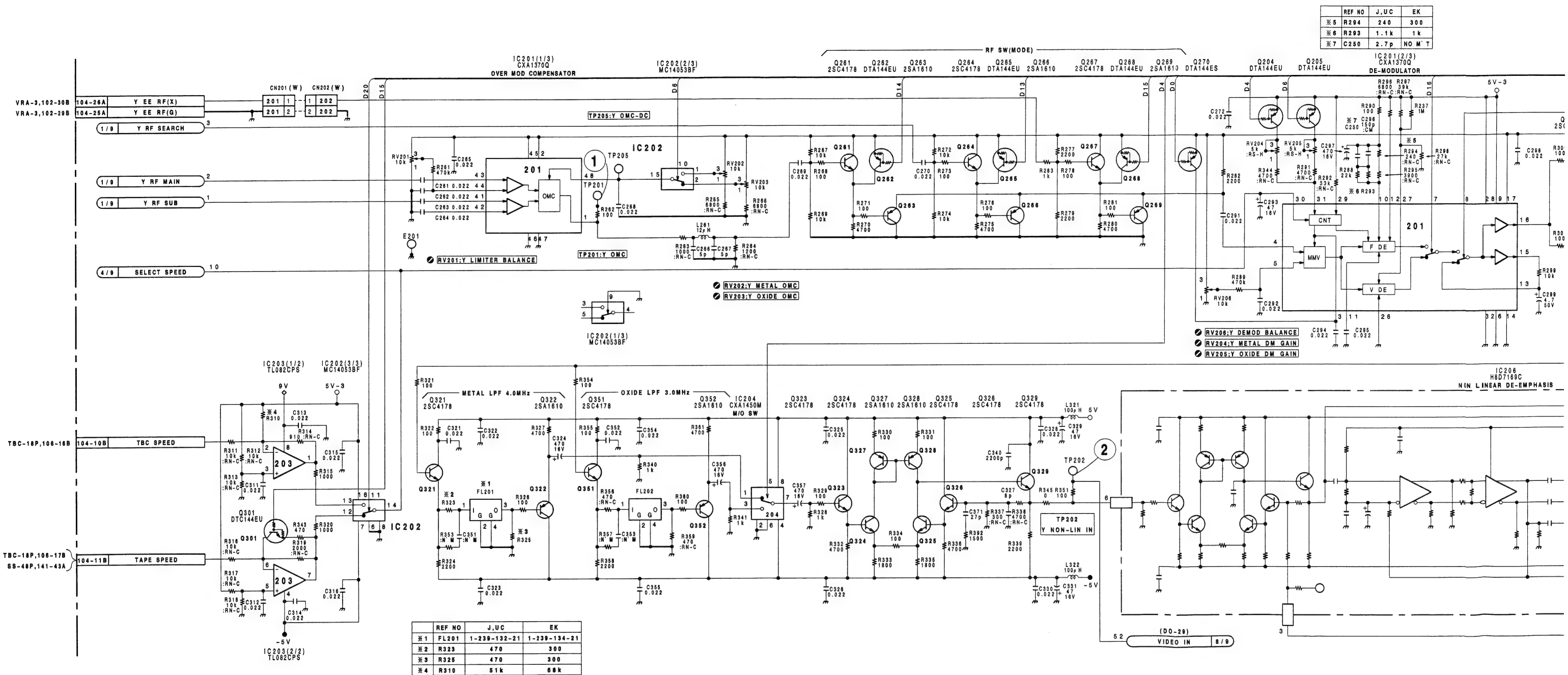
1

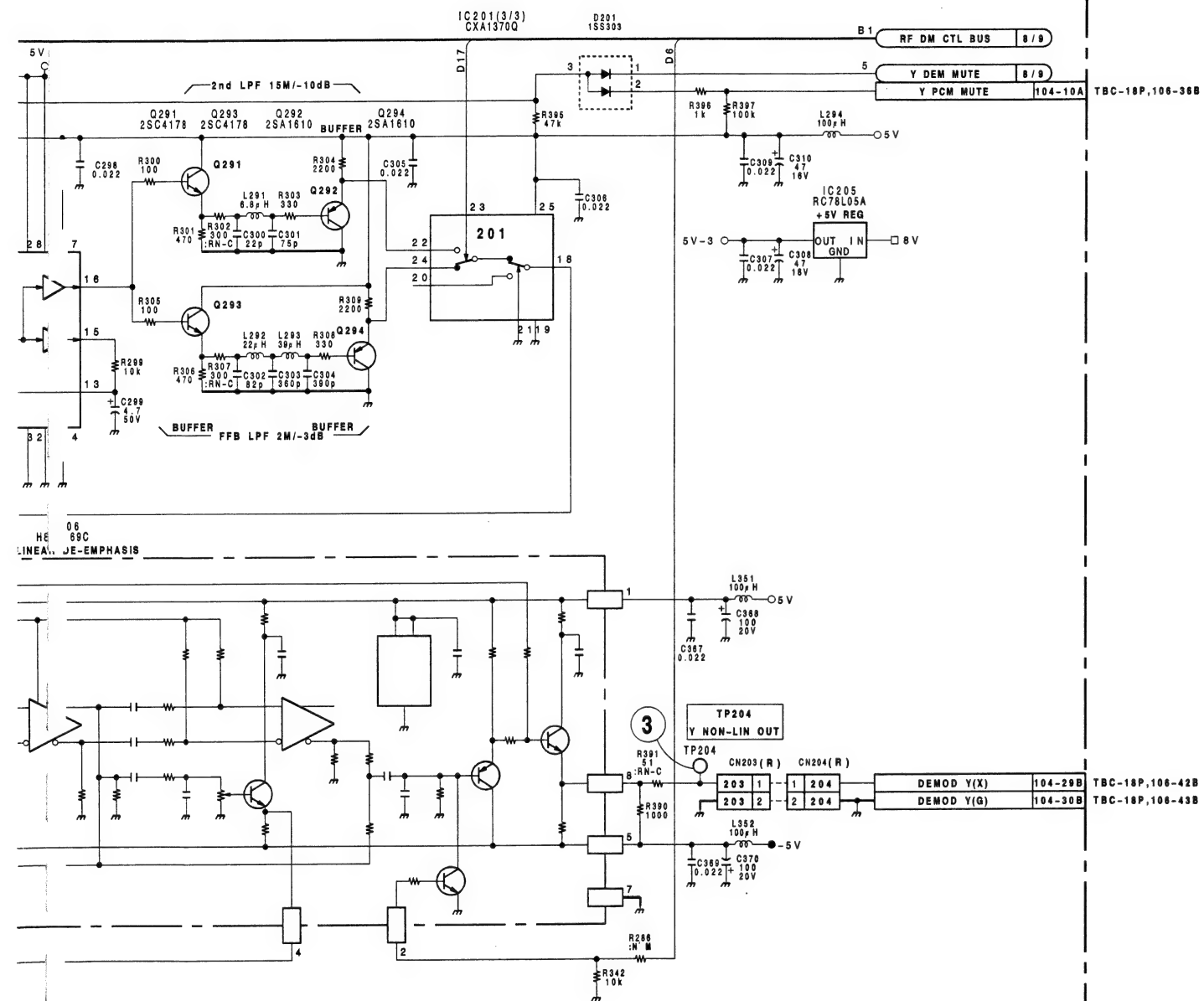
2

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VP-33AP BOARD (2 / 9)

BOARD NO.1-640-032-11
PVW-2600P (EK);#10001-10650



BOARD NO.1-640-032-11
PVW-2600P (EK);#10001-10650

Serial No.(EK);10001 to 10650

VP-33AP(4/9);DE-MODULATOR, NON LINEAR DE-EMPHASIS

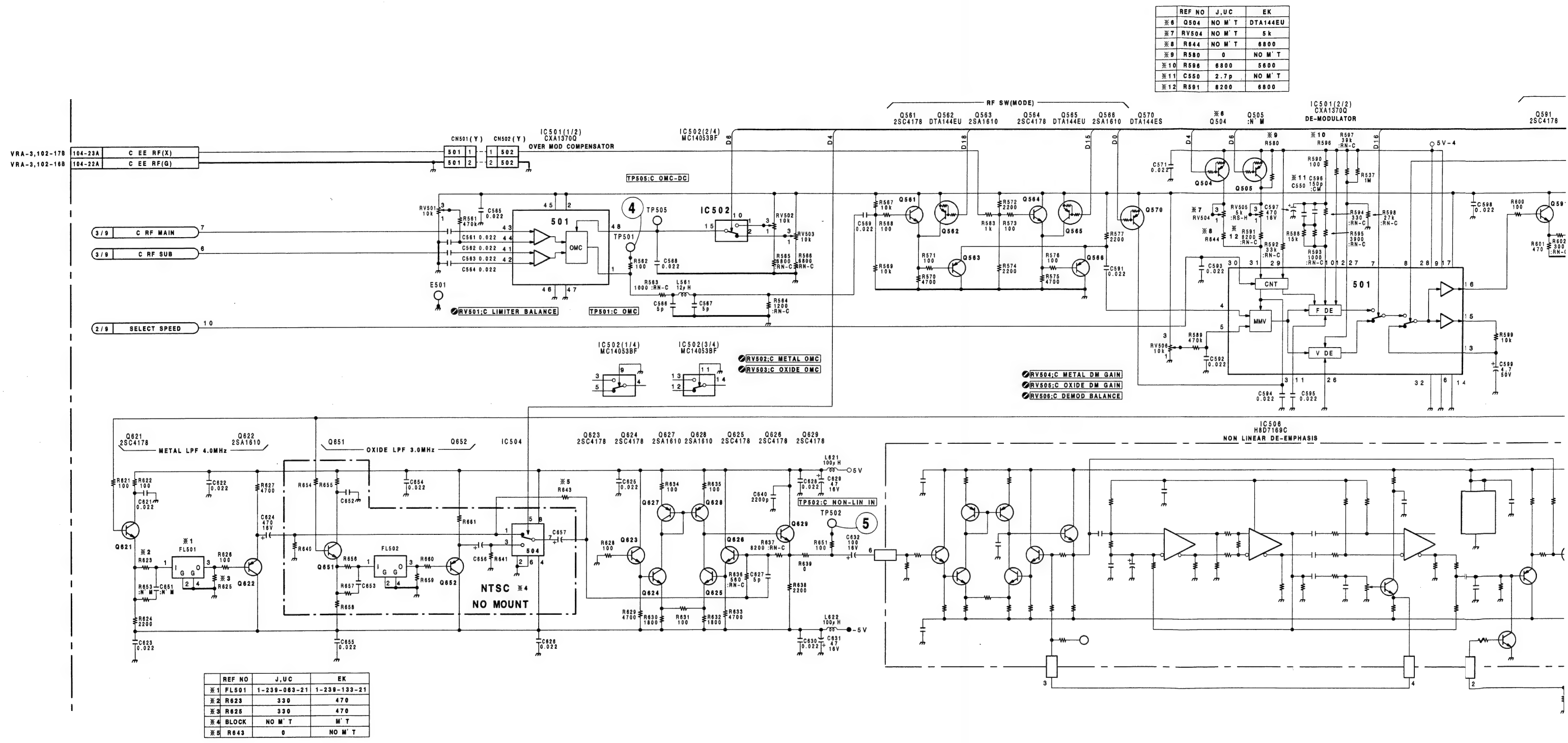
1

2

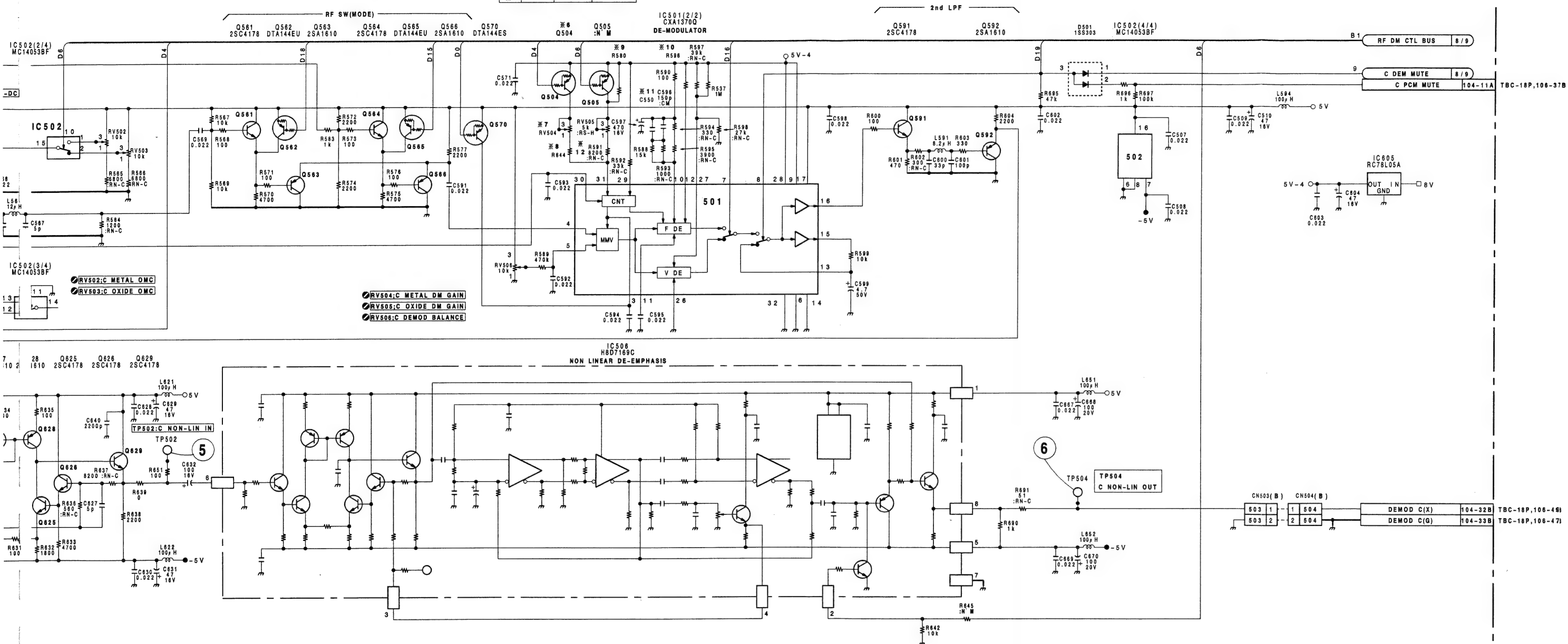
3

4

5



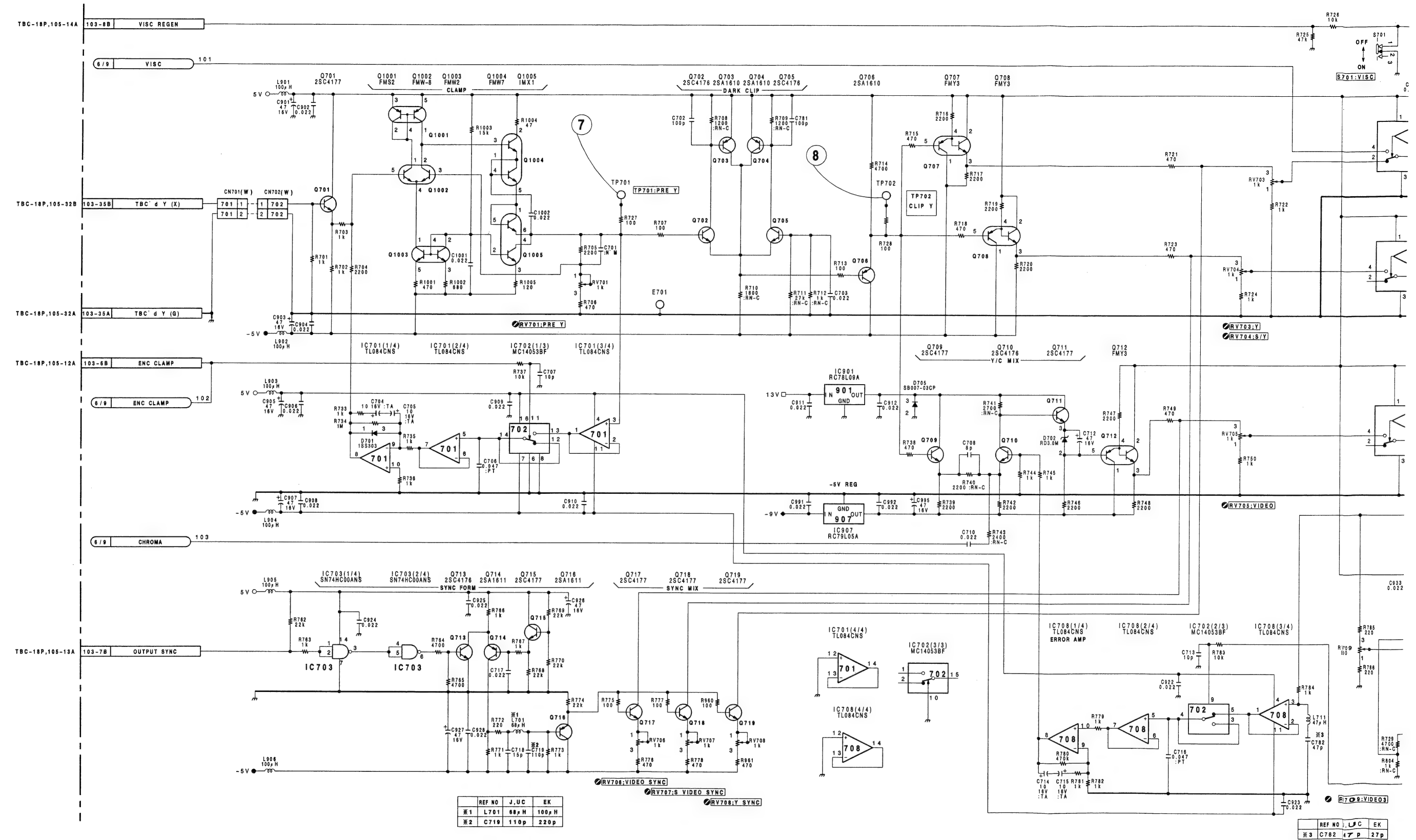
	REF NO	J,UC	EK
※6	Q504	NO M' T	DTA144EU
※7	RV504	NO M' T	5k
※8	R644	NO M' T	6800
※9	R580	0	NO M' T
※10	R596	6800	5600
※11	C550	2.7p	NO M' T
※12	R591	8200	6800

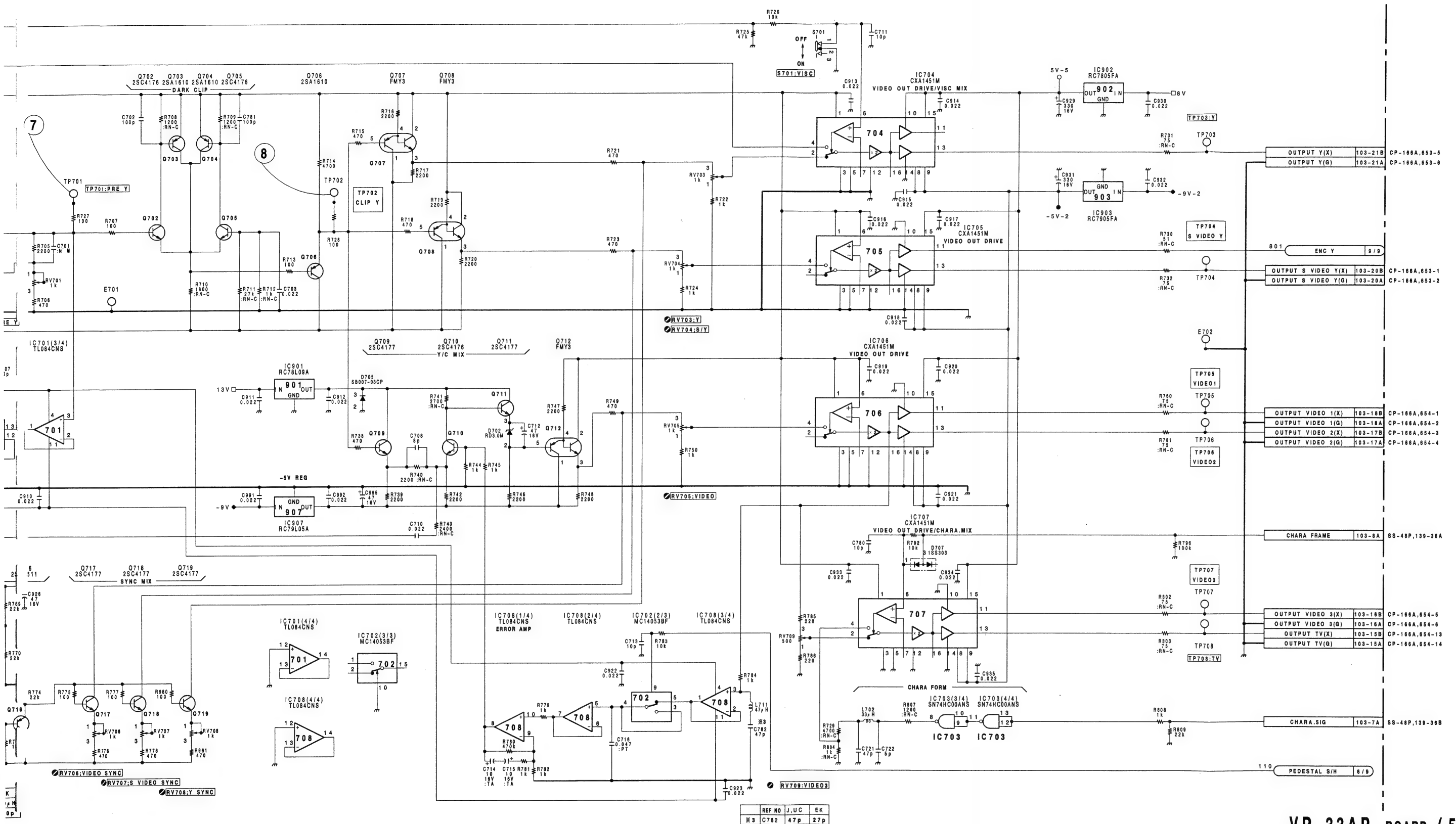


VP-33AP BOARD (4 / 9)

BOARD NO.1-640-032-11
PVW-2600P (EK);#10001-10650

VP-33AP(5/9);COMPOSITE OUT DRIVER





VP-33AP BOARD (5/9)

BOARD NO.1-640-032-11
PVW-2600P (EK);#10001-10650

Serial No.(EK);10001 to 10650

VP-33AP(6/9);ENCODER

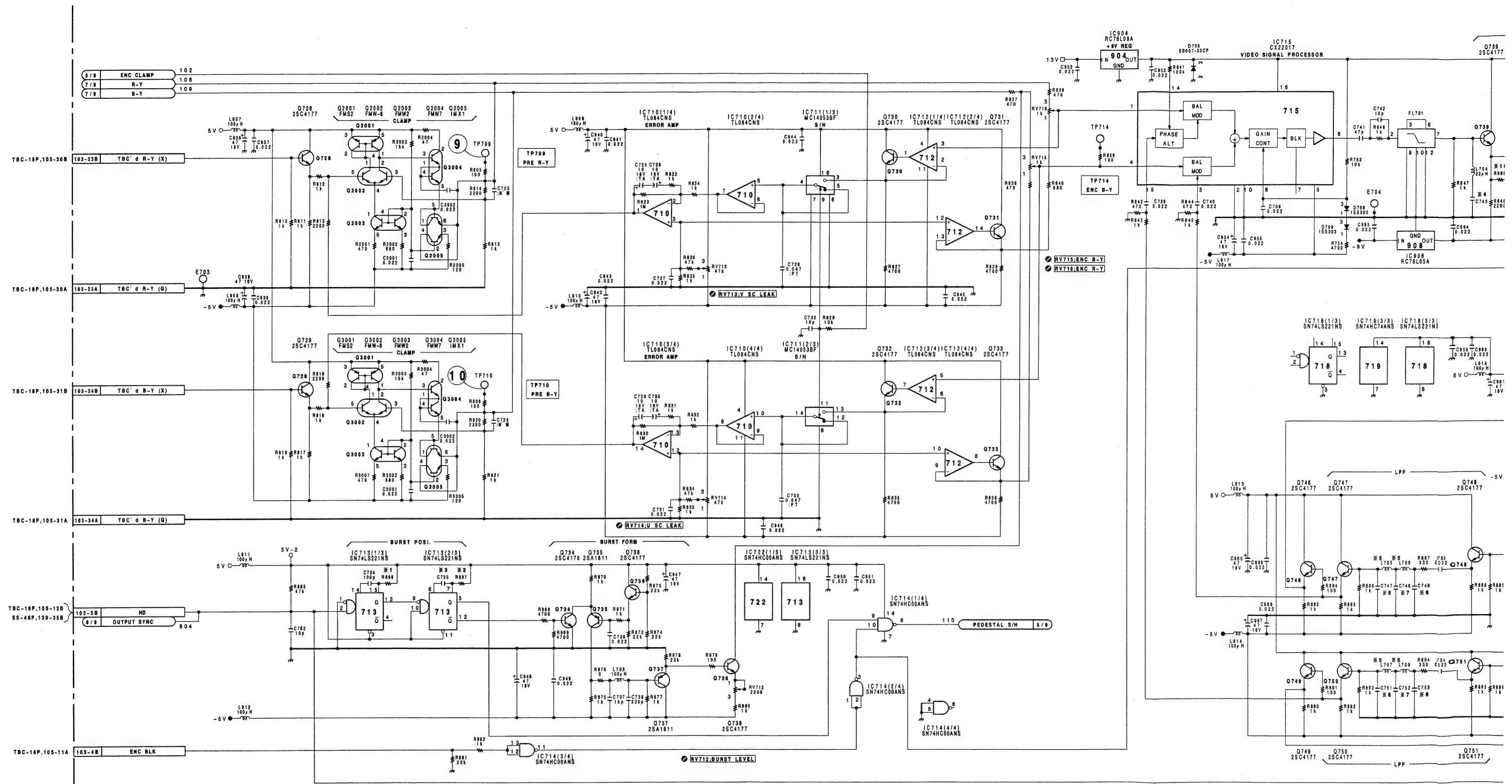
1

2

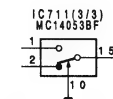
3

4

5

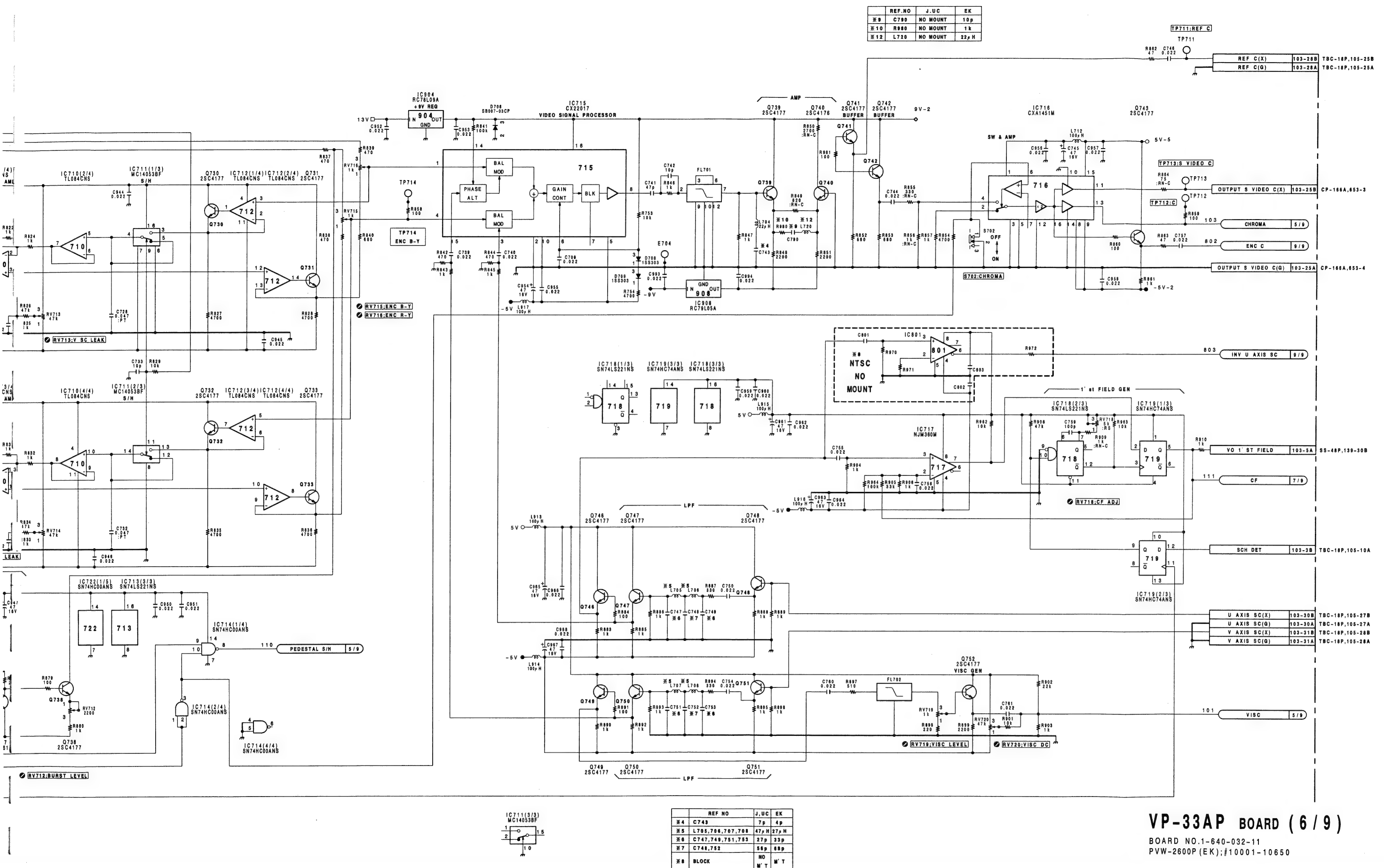


REF NO	J,UC	EK
*1 R866	5100	10k
*2 R867	33k	20k
*3 C735	110p	150p



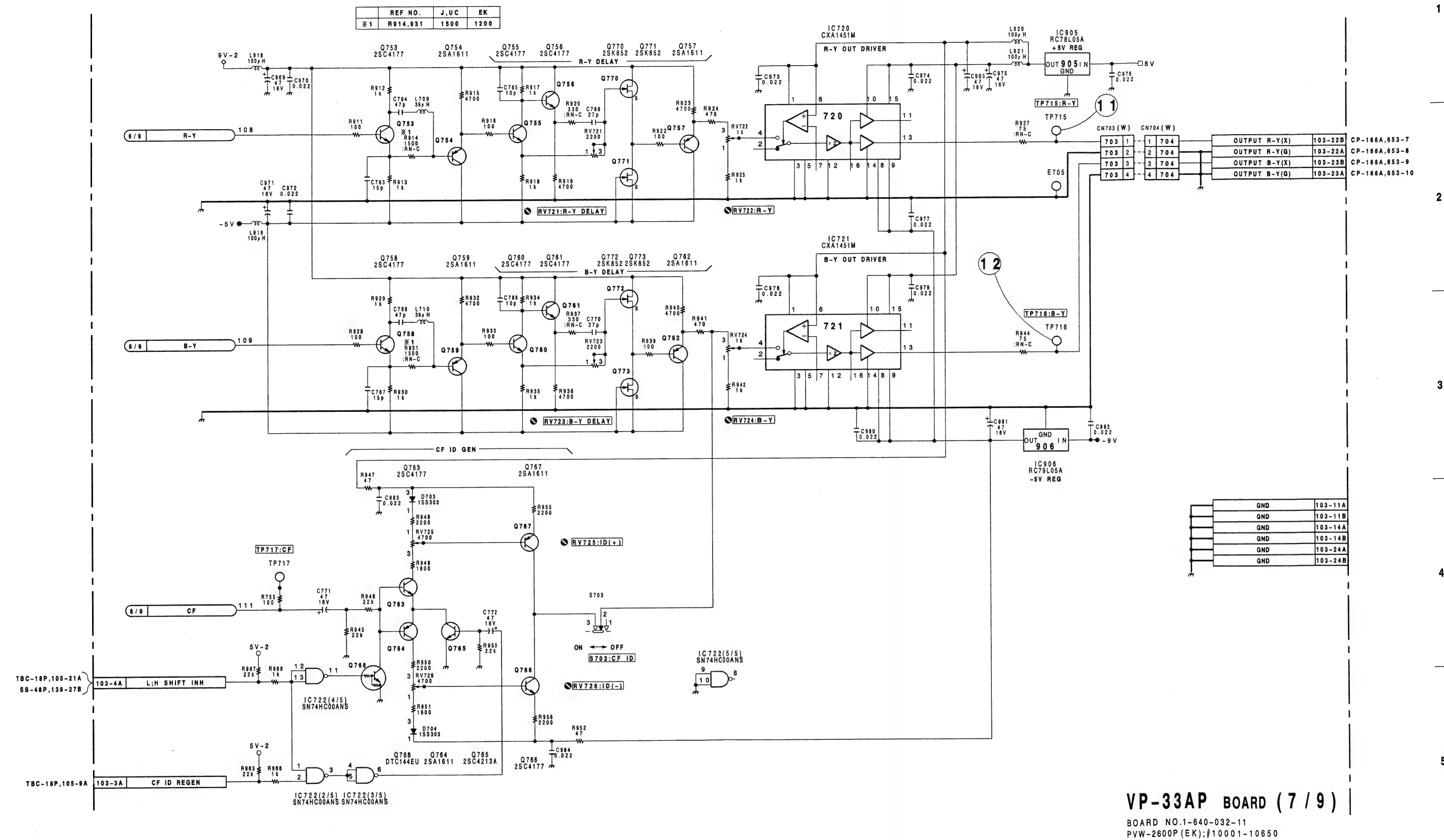
REF ID	J,UC	EK
*4 C743	7p	4p
*5 L705, L706, L707, L708	47μH	27μH
*6 C747, C748, C749, C750	27p	33p
*7 C746, C751	56p	68p
*8 BLOCK	NO	M.T

REF.NO	J.U.C	EK
※9	C790	NO MOUNT 10p
※10	R980	NO MOUNT 1k
※12	L720	NO MOUNT 22pH



Serial No.(EK);10001 to 10650

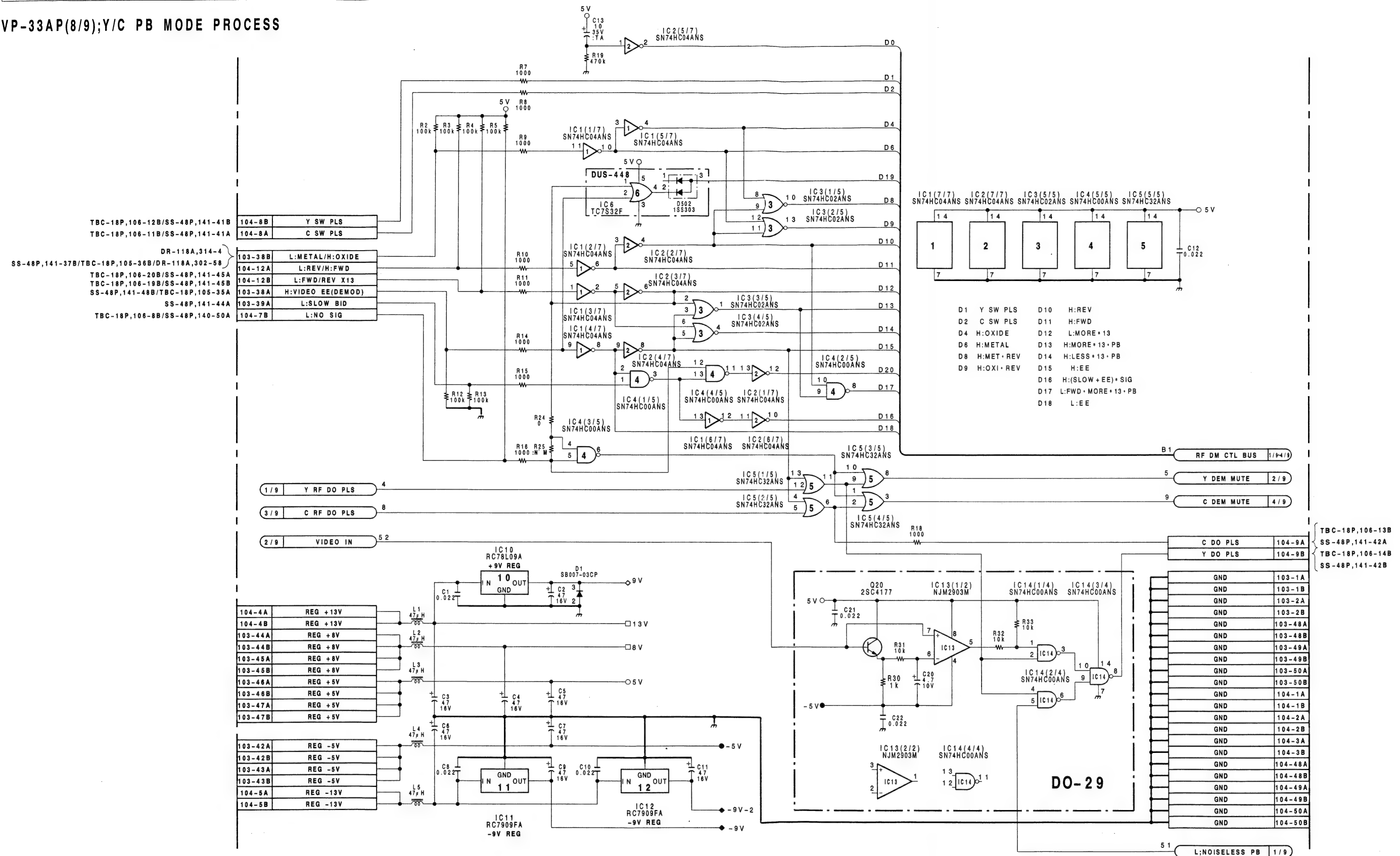
VP-33AP(7/9);R-Y/B-Y OUT DRIVER



Serial No.(EK);10001 to 10650

VP-33AP(8/9) VP-33AP(8/9)

VP-33AP(8/9);Y/C PB MODE PROCESS



16-14(a)

16-14(a)

A

B

C

D

E

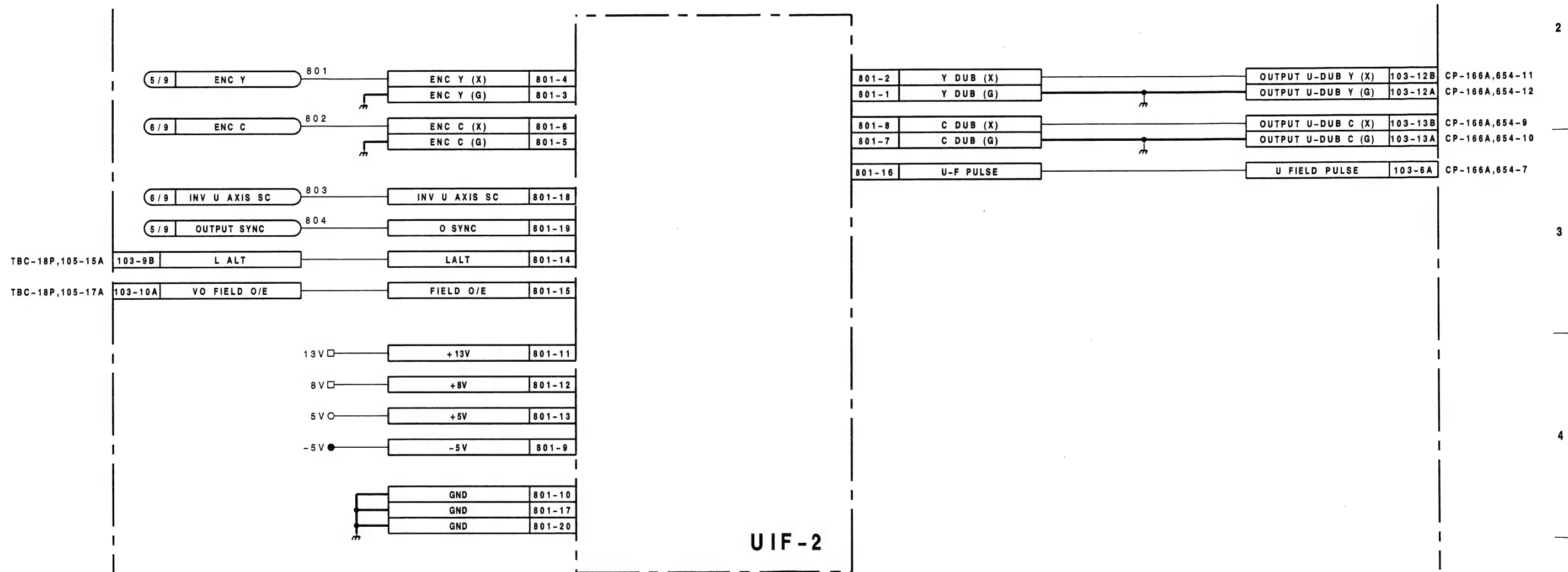
F

G

H

Serial No.(EK);10001 to 10650

VP-33AP(9/9);U-DUB INTERFACE



VP-33AP BOARD (9/9)

BOARD NO.1-640-032-11
PVW-2600P (EK);#10001-10650

16-15(a)

16-15(a)

A

B

C

D

E

F

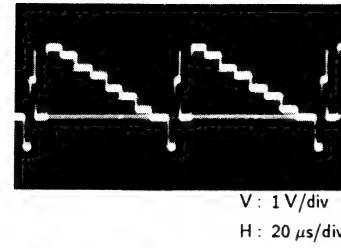
G

H

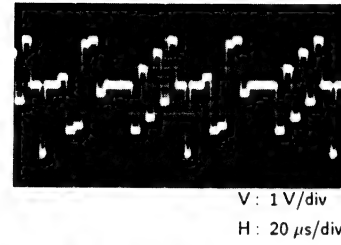
TBC-18P(1-640-033-14)

TP100	B-4
TP101	C-4
TP200	B-4
TP201	C-4
TP300	A-3
TP301	D-1
TP302	C-2
TP303	D-1
TP304	B-1
TP305	D-3
TP400	C-5
TP401	C-7
TP402	B-7
TP403	B-7
TP500	L-1
TP501	L-1
TP502	M-1
TP700	N-7
TP701	N-4
TP702	N-5
TP703	R-5
TP704	M-6
TP705	N-7

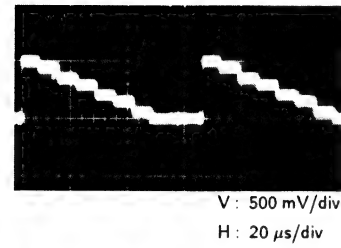
① TP101
PB



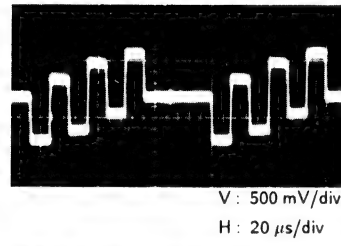
② TP201
PB



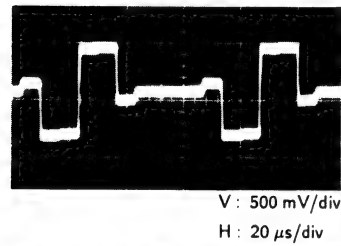
③ TP500
PB



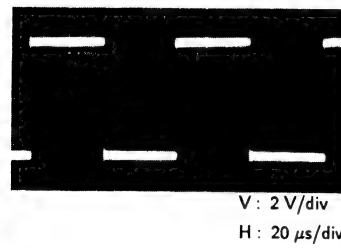
④ TP501
PB



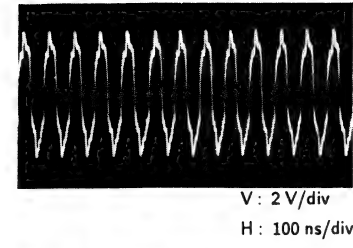
⑤ TP502
PB



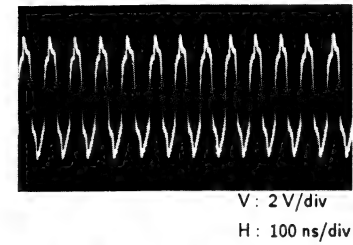
⑥ TP303
PB



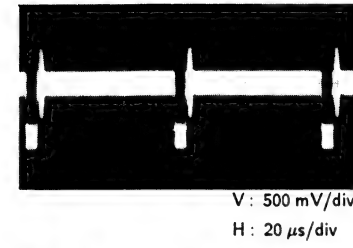
⑦ TP304
PB



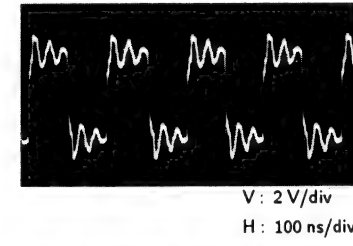
⑧ TP403
PB



⑨ TP700
PB

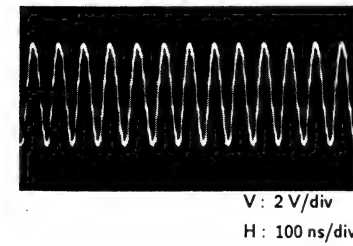


⑩ TP705
PB



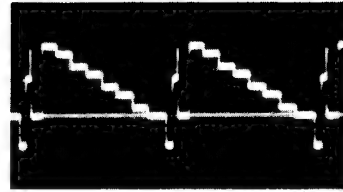
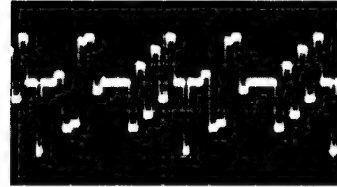
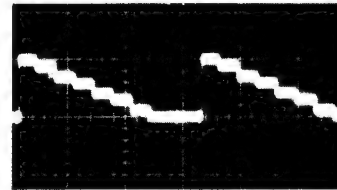
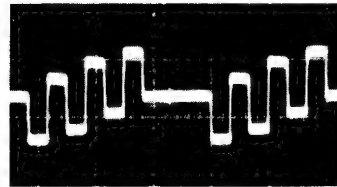
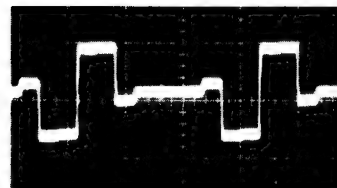
⑪ TP701
PB

⑫ TP702
PB

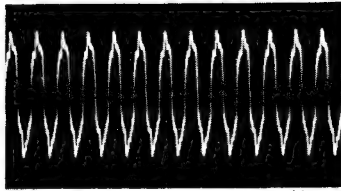


TBC-18P(1-640-033-13)

TP100	B-4
TP101	C-4
TP200	A-4
TP201	C-4
TP300	A-3
TP301	B-1
TP302	C-2
TP303	D-1
TP304	B-1
TP305	D-3
TP400	C-5
TP401	C-7
TP402	B-7
TP403	B-7
TP500	L-1
TP501	L-1
TP502	M-1
TP700	N-7
TP701	N-4
TP702	N-5
TP703	P-5
TP704	M-6
TP705	N-7

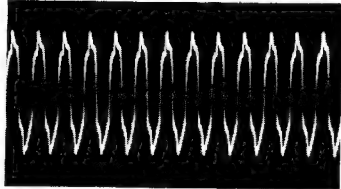
① TP101
PBV: 1 V/div
H: 20 μ s/div② TP201
PBV: 1 V/div
H: 20 μ s/div③ TP500
PBV: 500 mV/div
H: 20 μ s/div④ TP501
PBV: 500 mV/div
H: 20 μ s/div⑤ TP502
PBV: 500 mV/div
H: 20 μ s/div⑥ TP303
PBV: 2 V/div
H: 20 μ s/div

⑦ TP304
PB



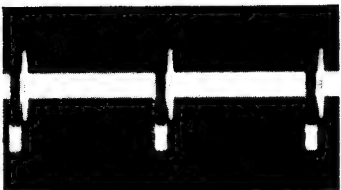
V : 2 V/div
H : 100 ns/div

⑧ TP403
PB



V : 2 V/div
H : 100 ns/div

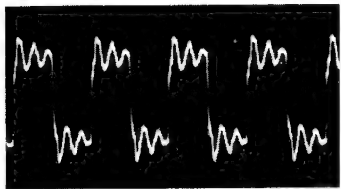
⑨ TP700
PB



⑩ TP705
PB

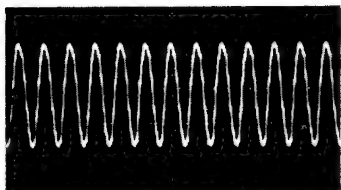
V : 500 mV/div
H : 20 μ s/div

⑪ TP701
PB



V : 2 V/div
H : 100 ns/div

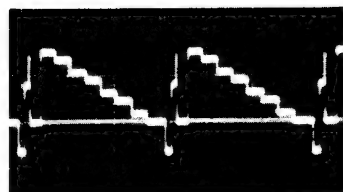
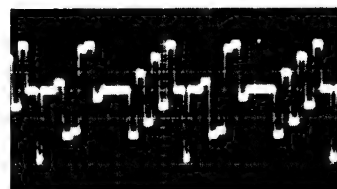
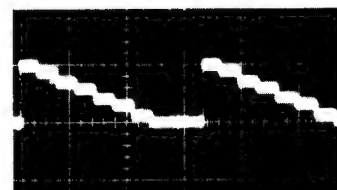
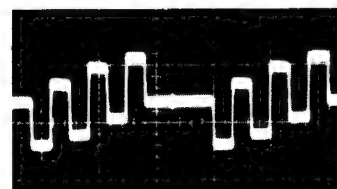
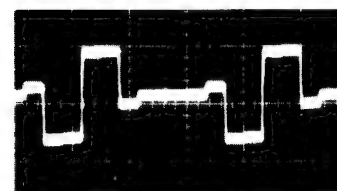
⑫ TP702
PB



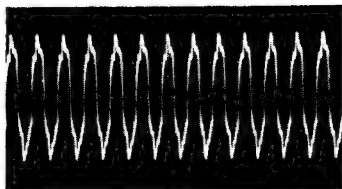
V : 2 V/div
H : 100 ns/div

TBC-18P(1-640-033-11,12)

TP100	B-4
TP101	C-4
TP200	B-4
TP201	C-4
TP300	A-3
TP301	D-1
TP302	C-2
TP303	D-1
TP304	B-1
TP400	C-5
TP401	C-7
TP402	B-7
TP403	B-7
TP500	L-1
TP501	L-1
TP502	M-1
TP700	N-7
TP701	N-4
TP702	N-5
TP703	R-5
TP704	M-6
TP705	N-7

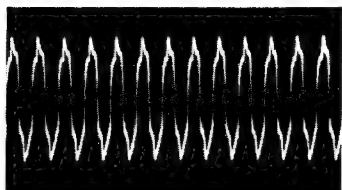
① TP101
PBV: 1 V/div
H: 20 μ s/div② TP201
PBV: 1 V/div
H: 20 μ s/div③ TP500
PBV: 500 mV/div
H: 20 μ s/div④ TP501
PBV: 500 mV/div
H: 20 μ s/div⑤ TP502
PBV: 500 mV/div
H: 20 μ s/div⑥ TP303
PBV: 2 V/div
H: 20 μ s/div

⑦ TP304
PB



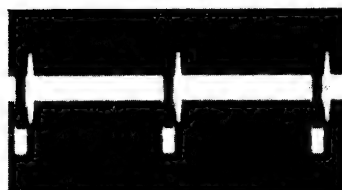
V: 2 V/div
H: 100 ns/div

⑧ TP403
PB



V: 2 V/div
H: 100 ns/div

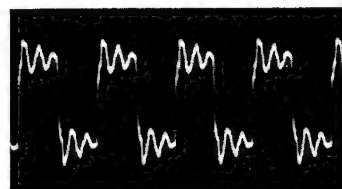
⑨ TP700
PB



⑩ TP705
PB

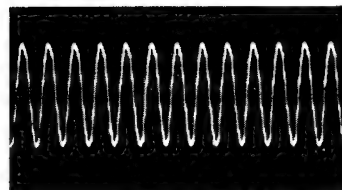
V: 500 mV/div
H: 20 μ s/div

⑪ TP701
PB



V: 2 V/div
H: 100 ns/div

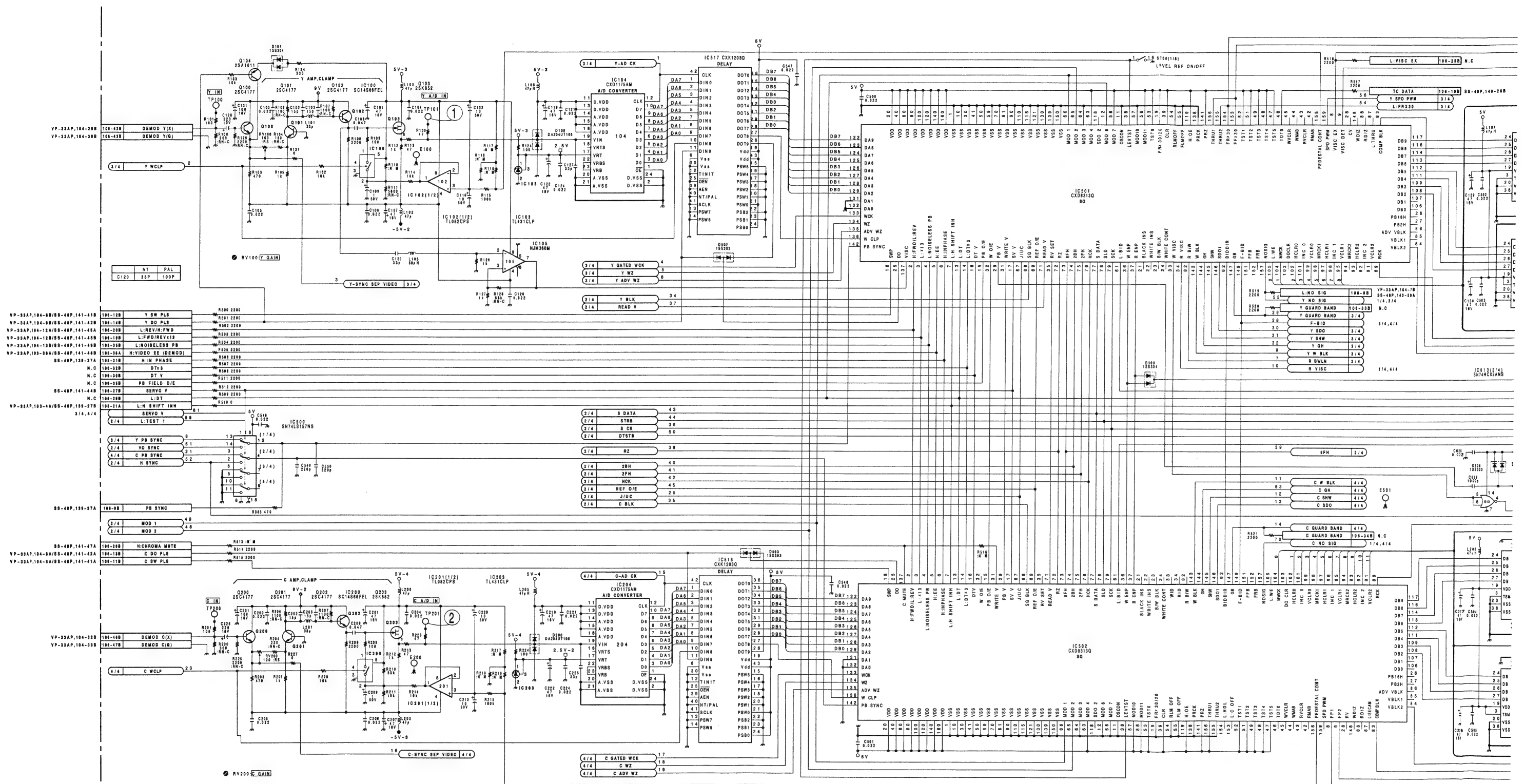
⑬ TP702
PB



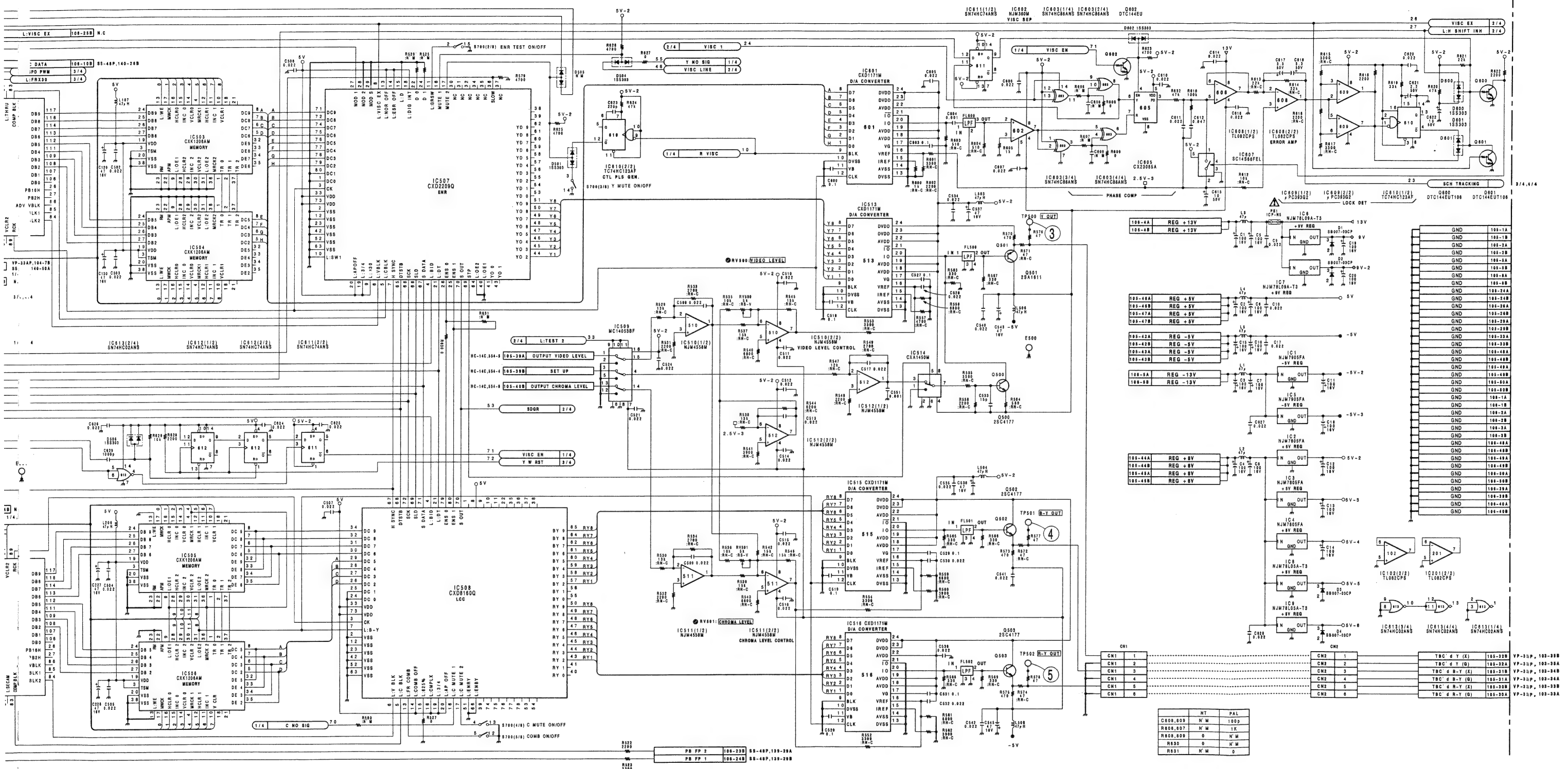
V: 2 V/div
H: 100 ns/div

TBC-18P(1/4) TBC-18P(1/4)

16-17(c)



Replace only with the same components as specified.



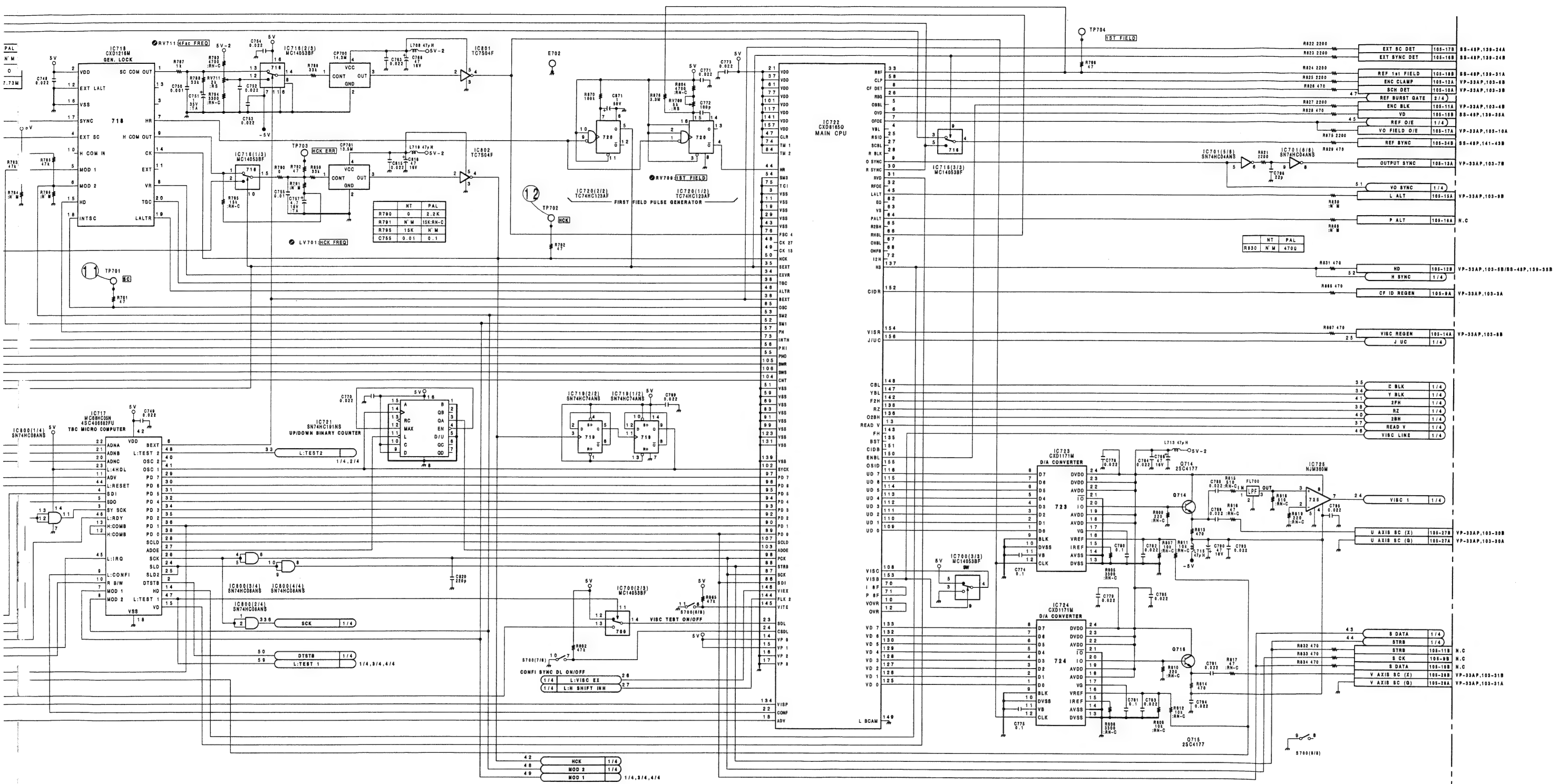
TBC-18P BOARD (1 / 4)

BOARD NO.1-640-033-14
PVW-2600P (EK);#14586-
PVW-2600P (UC);#10011-

TBC-18P(2/4) TBC-18P(2/4)

1





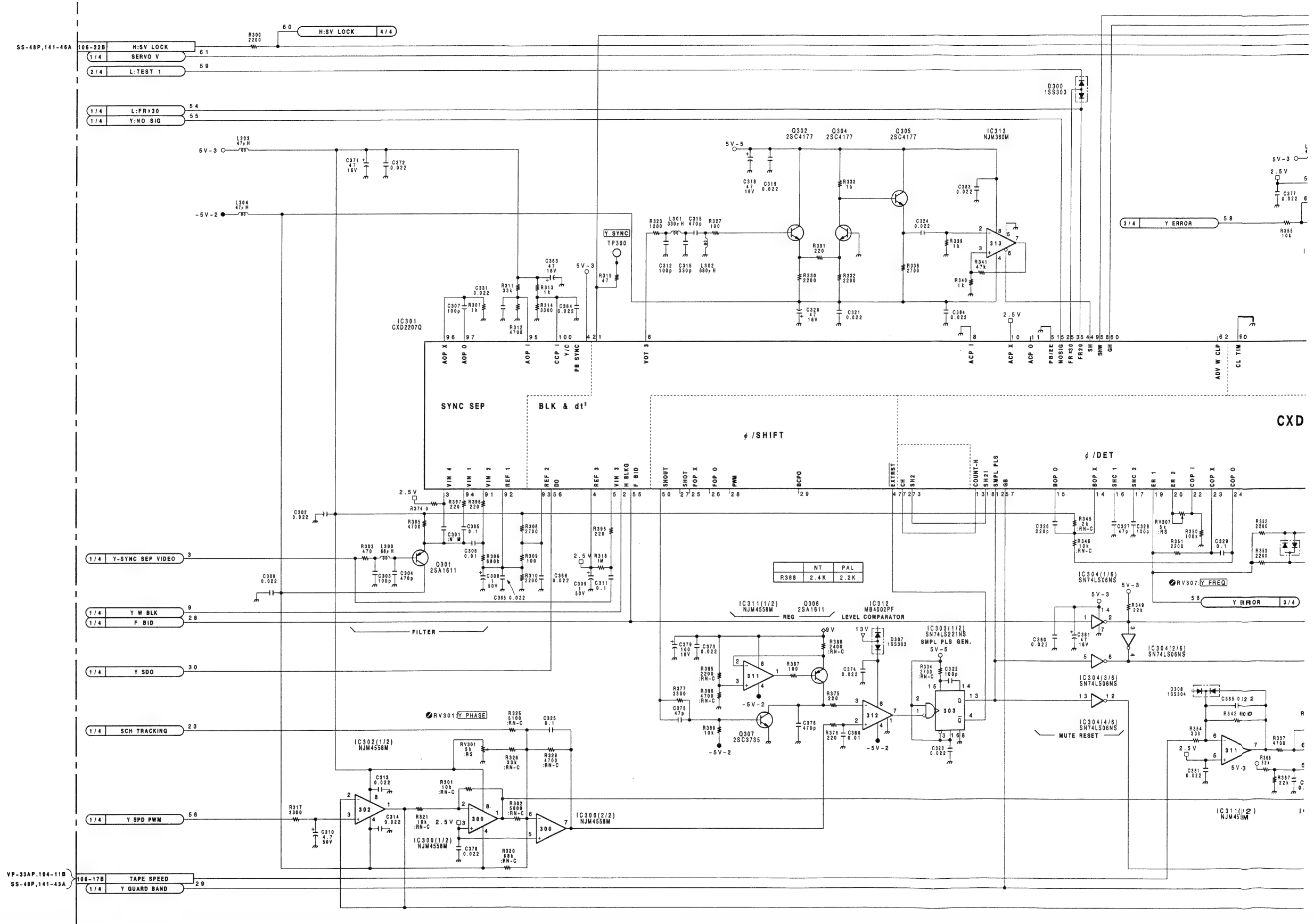
TBC-18P BOARD (2/4)

BOARD NO.1-640-033-14
PVW-2600P(EK);#14586-
PVW-2600P(UC);#10011-

Serial No.(EK);14586 and higher
Serial No.(UC);10011 and higher

TBC-18P(3/4) TBC-18P(3/4)

TBC-18P(3/4);TIME BASE CORRECTOR(Y-WRITE CLOCK BLOCK)



16-19(c)

A

B

C

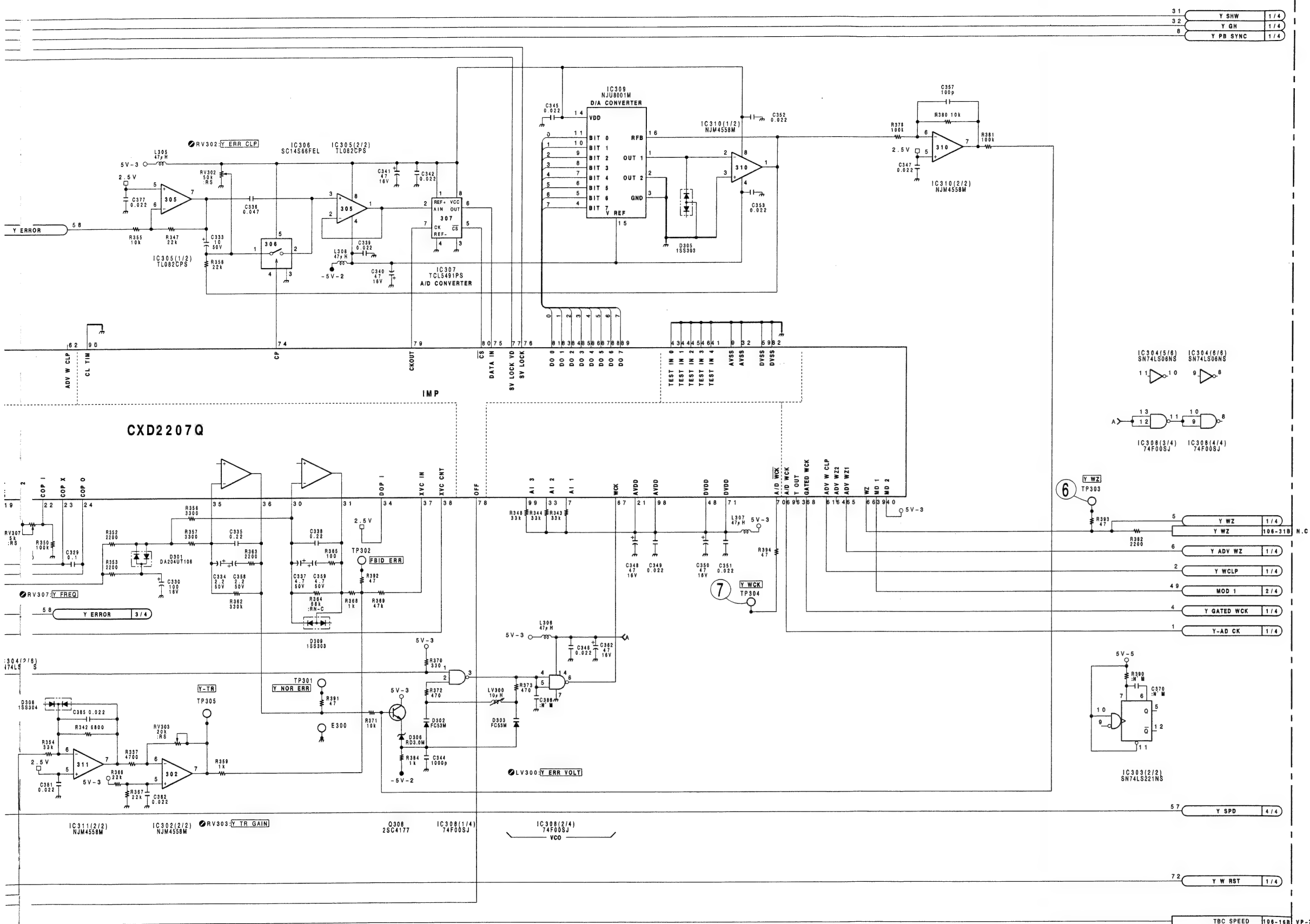
D

E

F

G

H



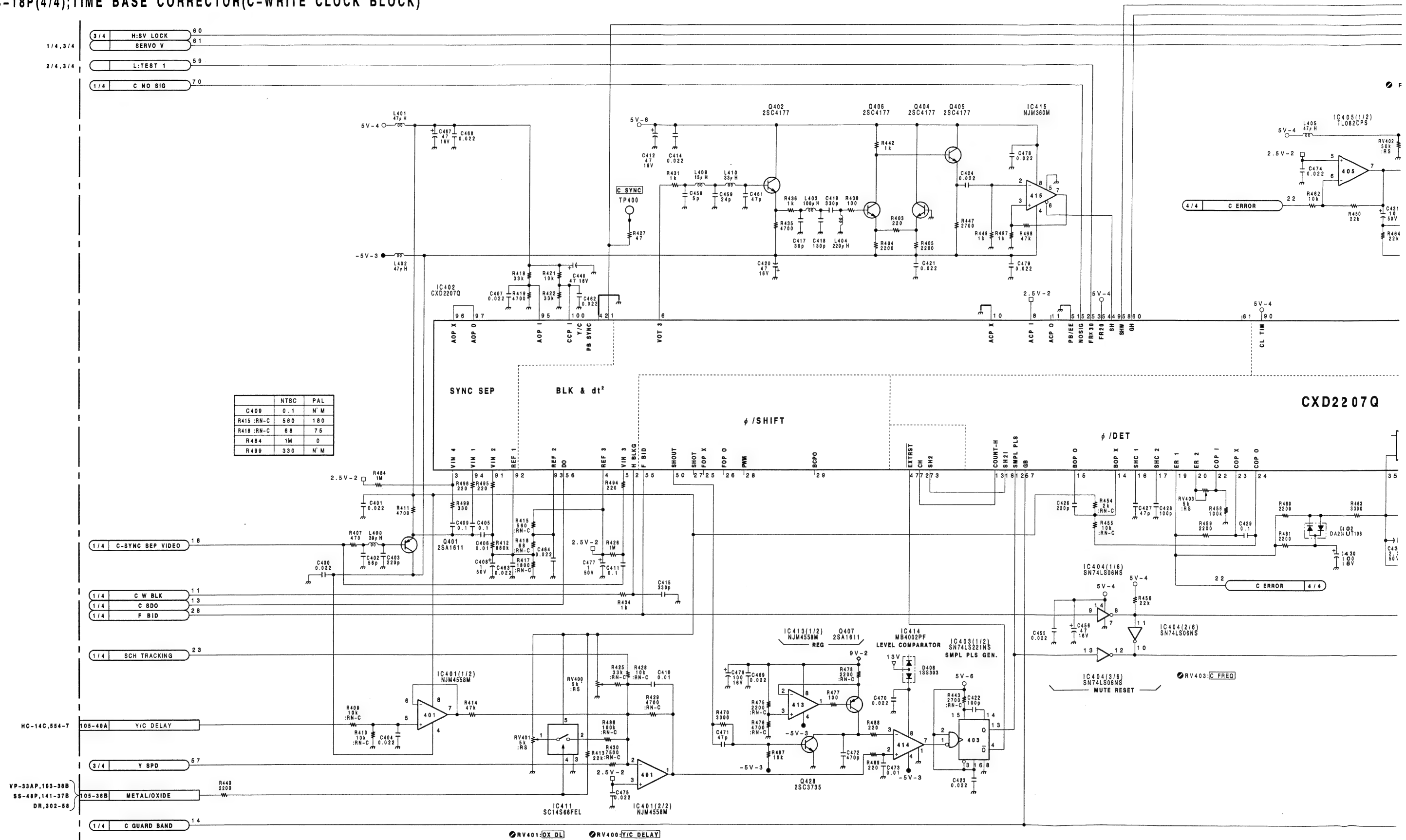
TBC-18P BOARD (3 / 4)

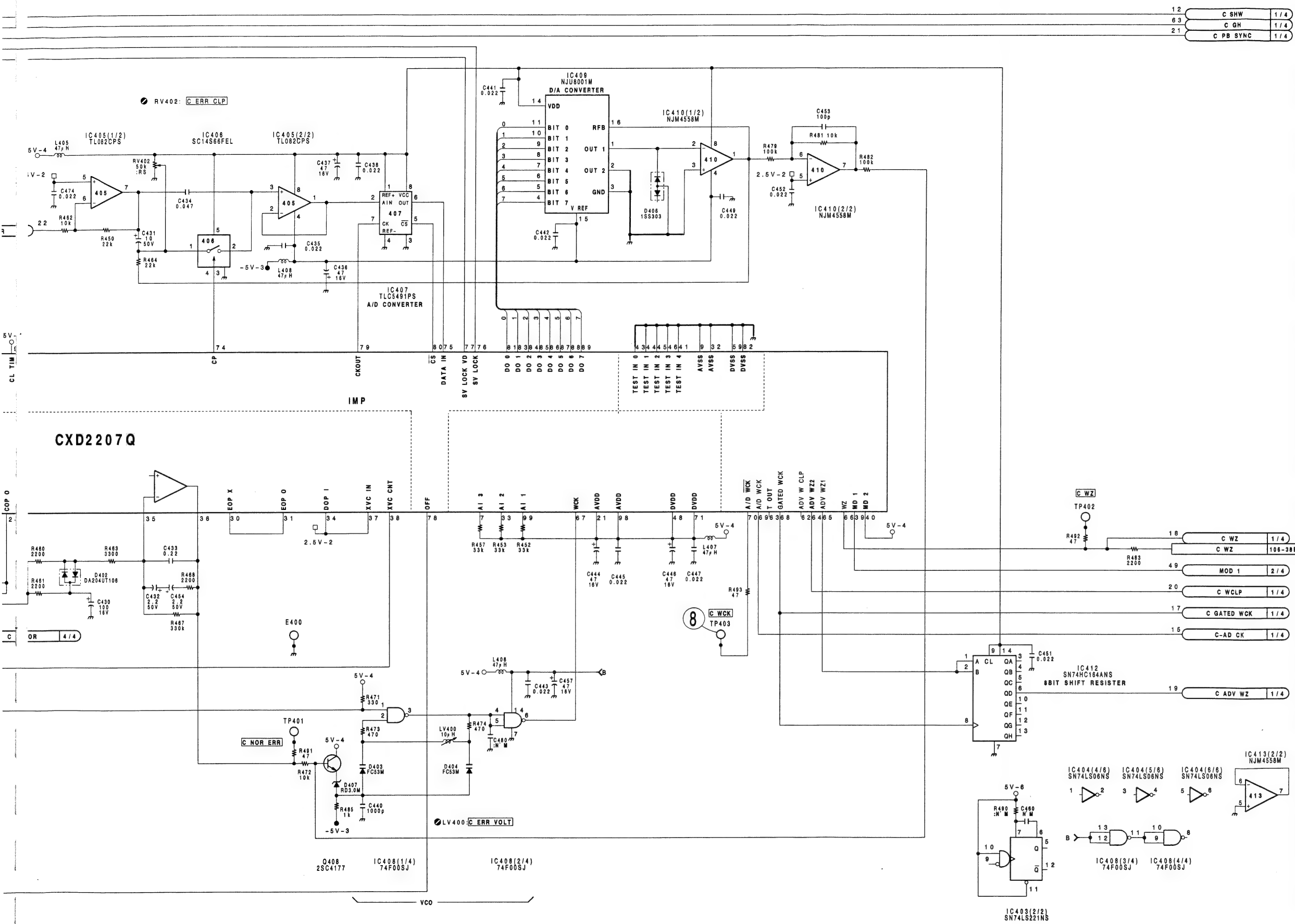
BOARD NO.1-640-033-14
PVW-2600P (EK);#14586-
PVW-2600P (UC);#10011-

Serial No.(EK);14586 and higher
Serial No.(UC);10011 and higher

TBC-18P(4/4) TBC-18P(4/4)

TBC-18P(4/4);TIME BASE CORRECTOR(C-WRITE CLOCK BLOCK)

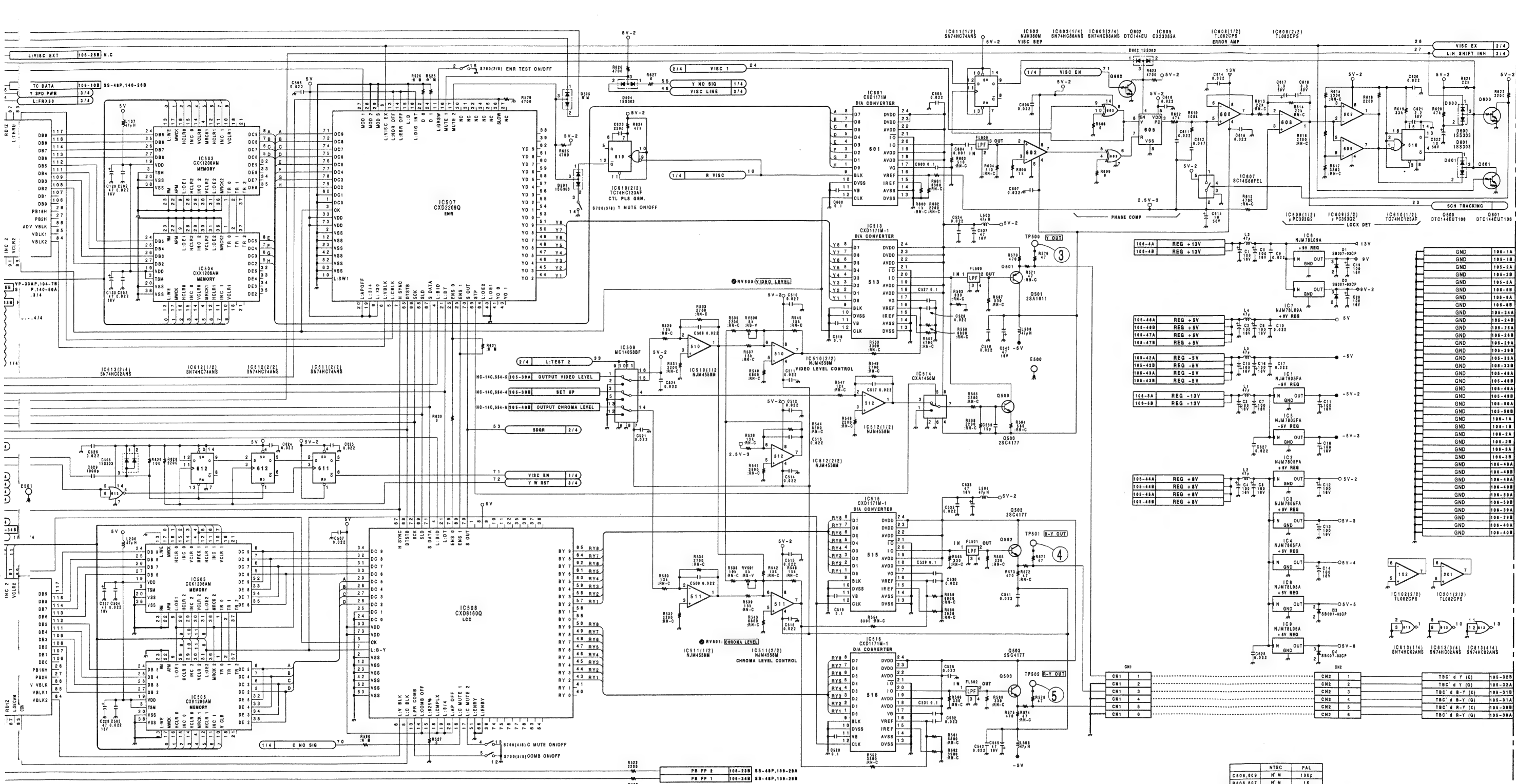




TBC-18P(1/4) TBC-18P(1/4)

16-17(b)

H

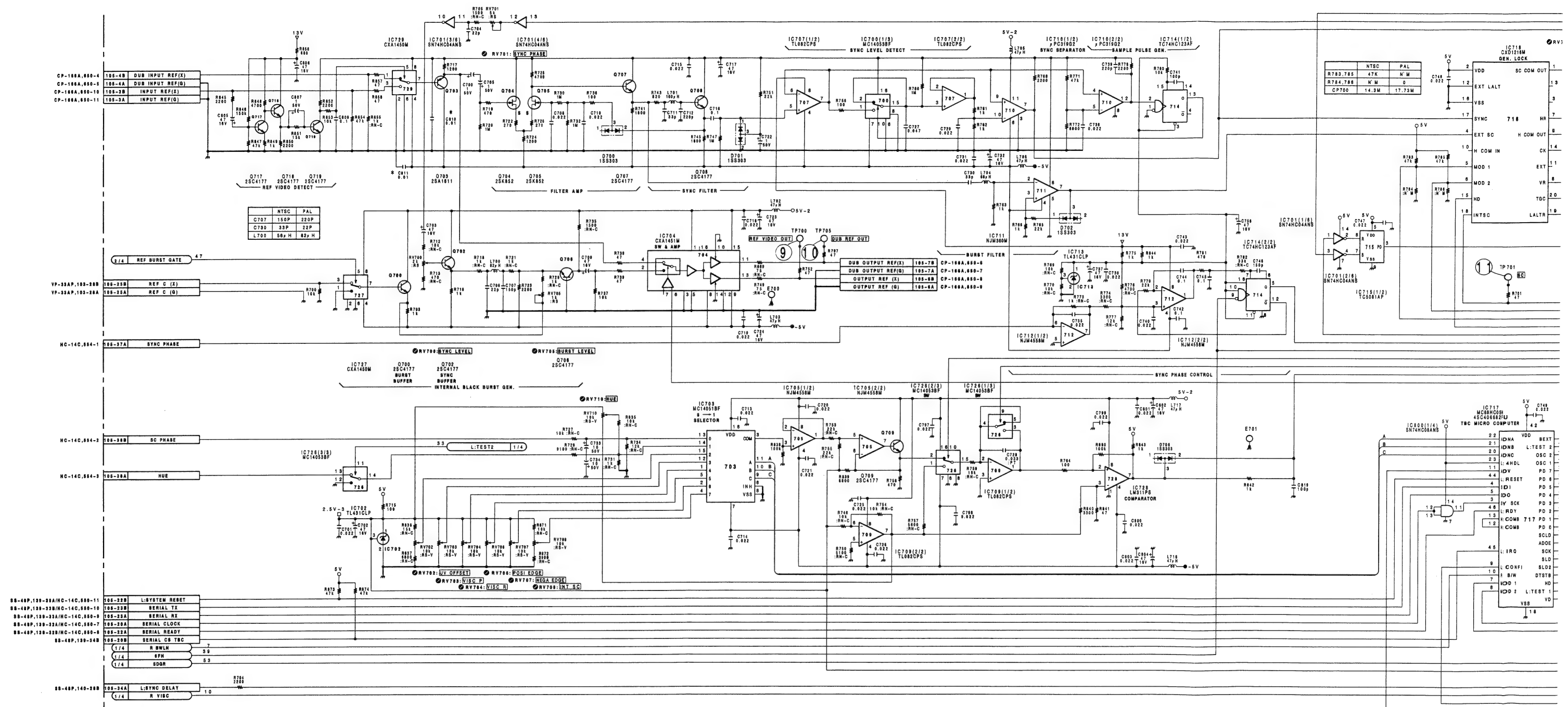


CA08.008	NBC	PAL
CA08.009	NBC	1009
CA08.010	NBC	1K
CA08.011	NBC	NBC
CA08.012	NBC	NBC
CA08.013	NBC	NBC
CA08.014	NBC	NBC
CA08.015	NBC	NBC
CA08.016	NBC	NBC
CA08.017	NBC	NBC
CA08.018	NBC	NBC
CA08.019	NBC	NBC
CA08.020	NBC	NBC

TBC-18P BOARD (1/4)

BOARD NO.1-640-033-13
 PVW-2600P (E):#11151-14585
 PVW-2600P (U):#10001-10010

TBC-18P(2/4);TIME BASE CORRECTOR



A

B

C

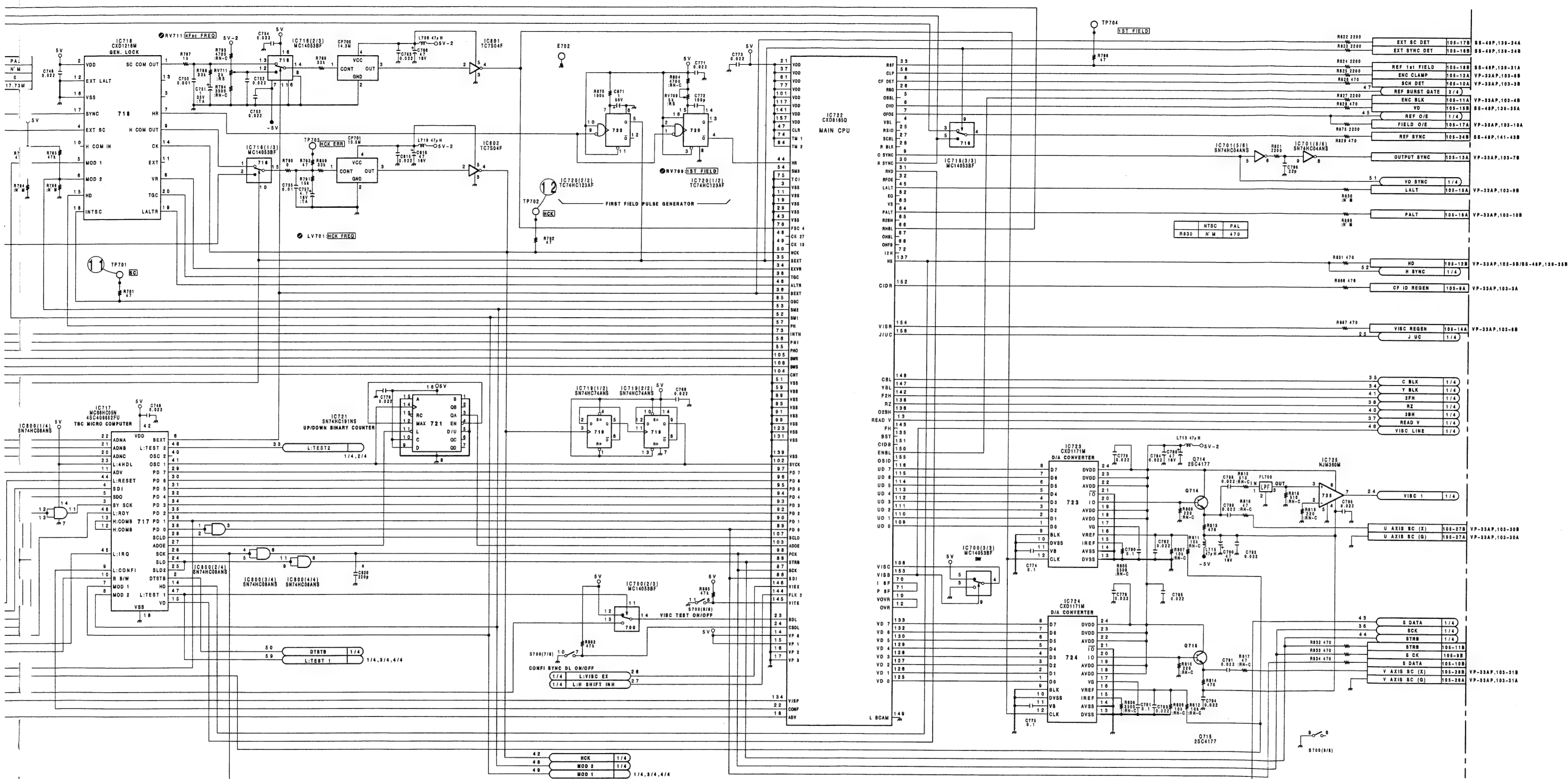
D

E

F

G

H



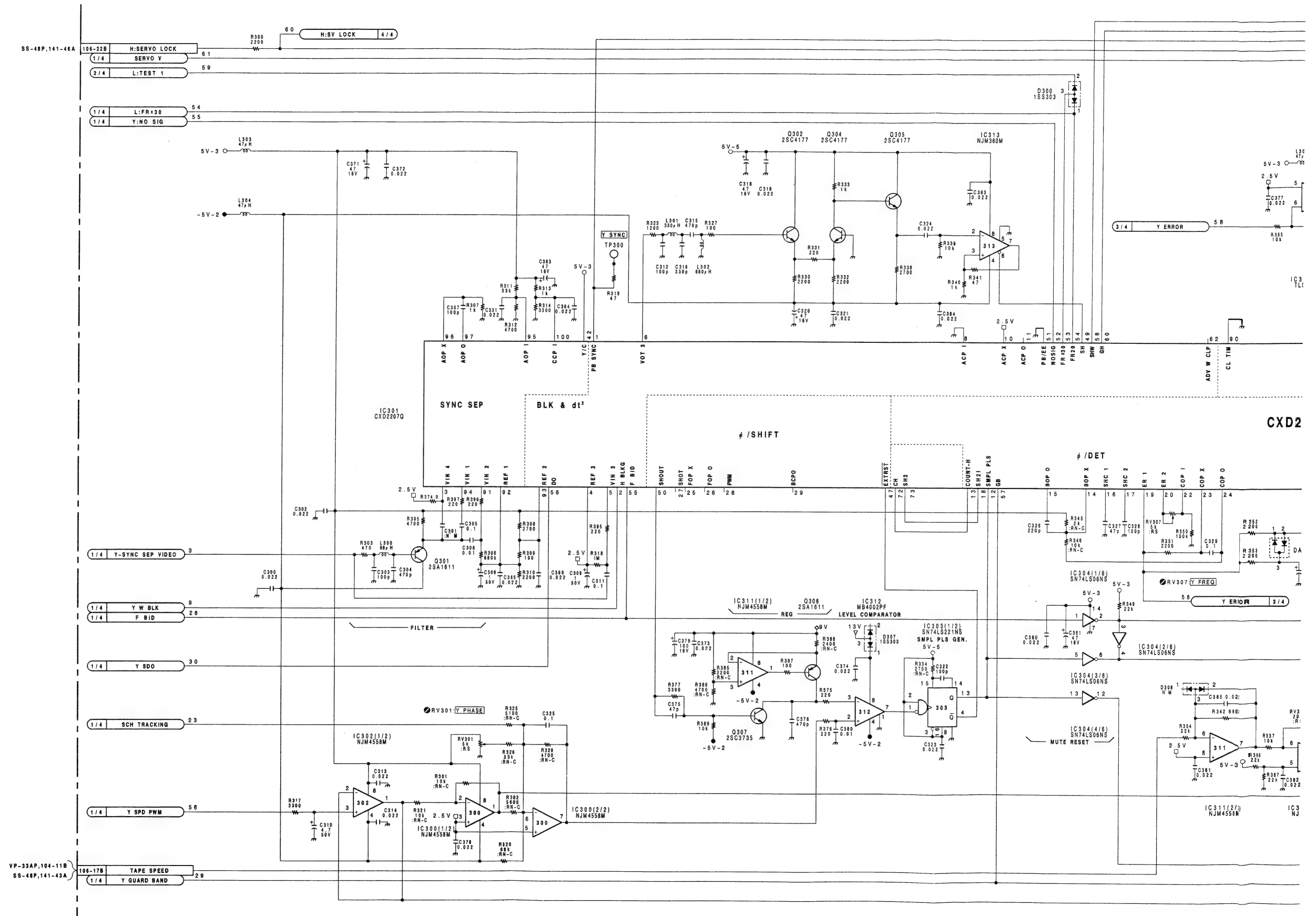
TBC-18P BOARD (2 / 4)

BOARD NO.1-640-033-13
PVW-2600P (EK);#11151-14585
PVW-2600P (UC);#10001-10010

Serial No.(EK);11151 to 14585
Serial No.(UC);10001 to 10010

TBC-18P(3/4) TBC-18P(3/4)

TBC-18P(3/4);TIME BASE CORRECTOR(Y-WRITE CLOCK BLOCK)



A

B

C

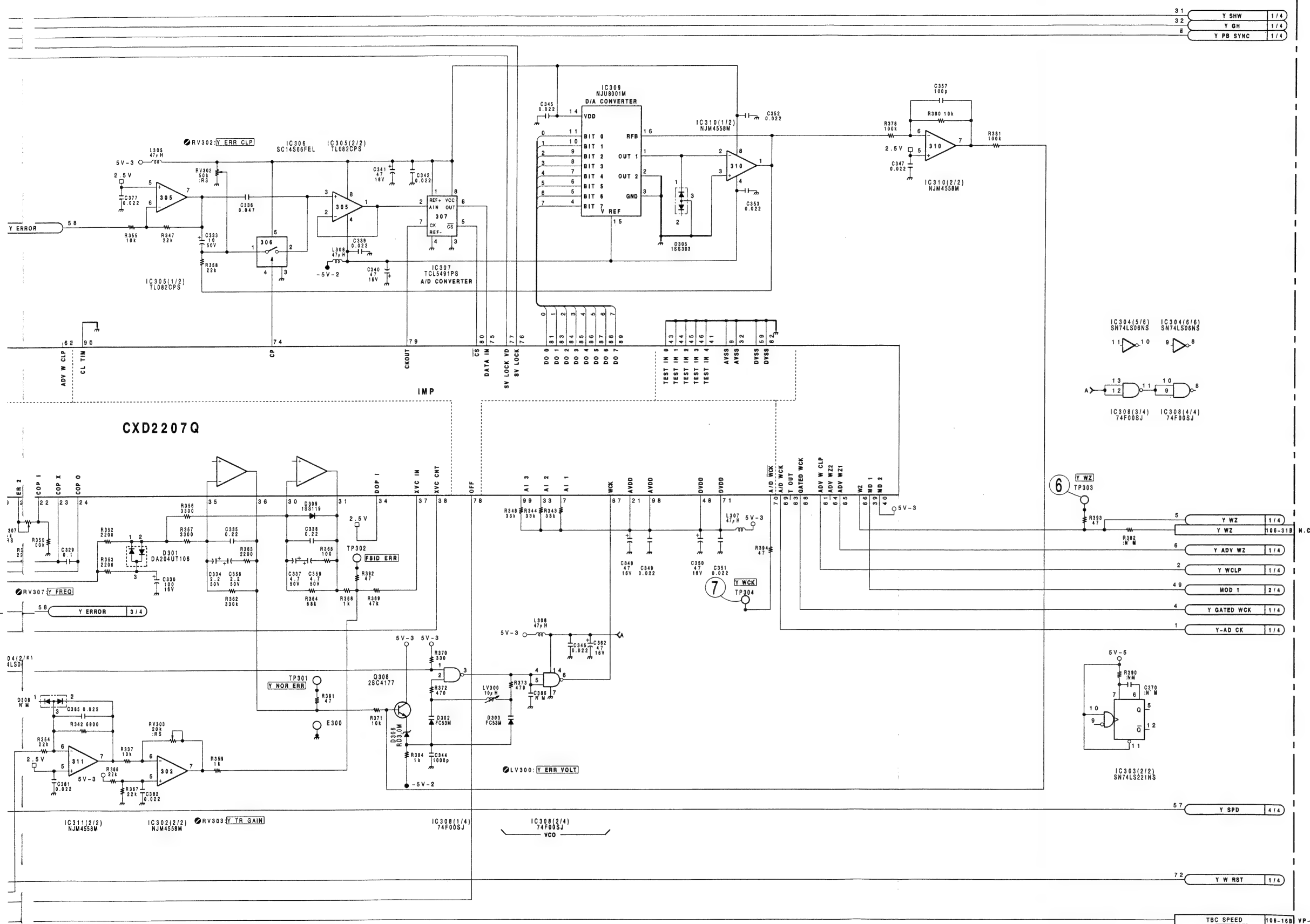
D

E

F

G

H

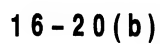


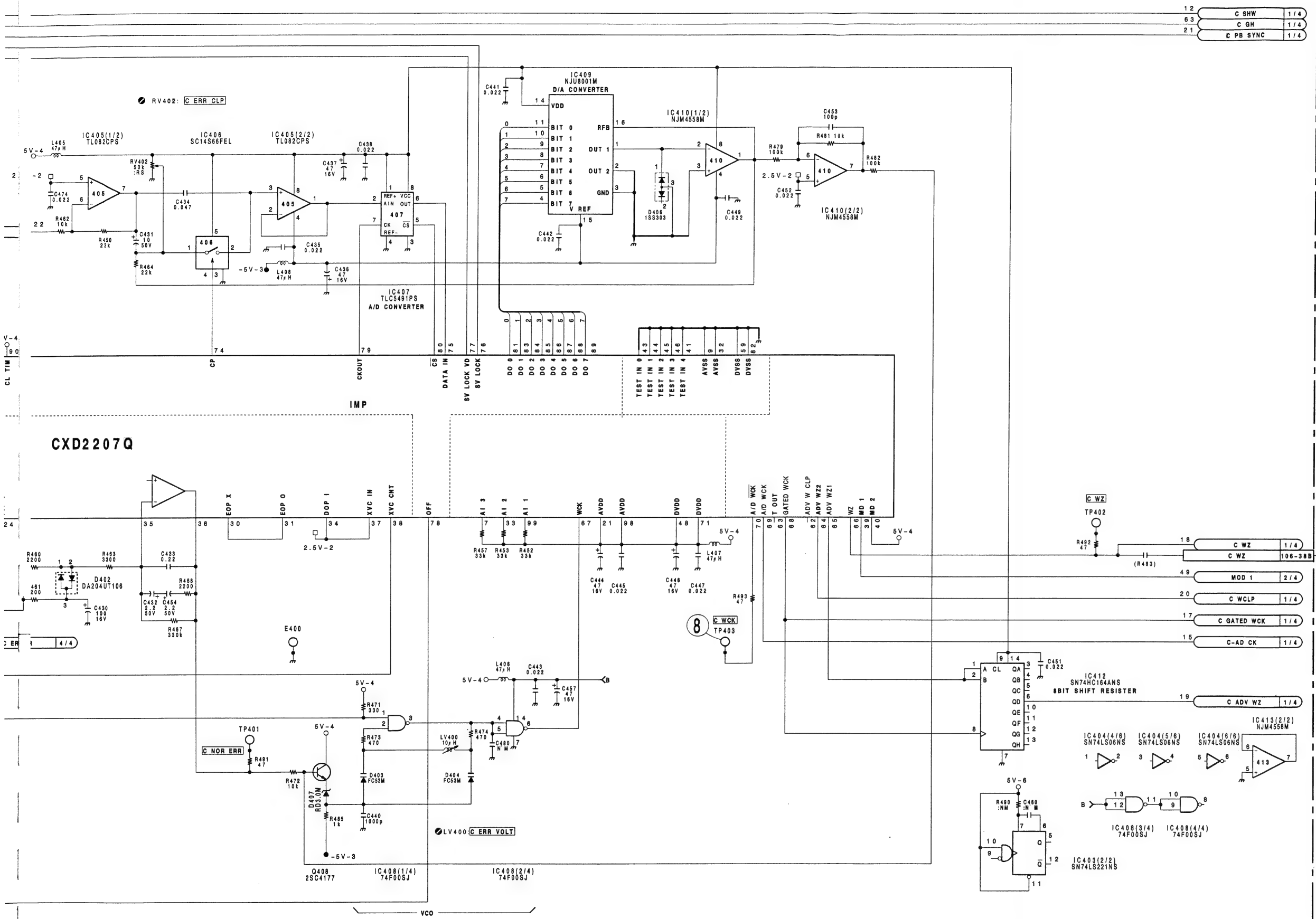
TBC-18P BOARD (3/4)

BOARD NO.1-640-033-13
 PVW-2600P(EK);#11151-14585
 PVW-2600P(UC);#10001-10010

TBC-18P(4/4) TBC-18P(4/4)

0 (b)





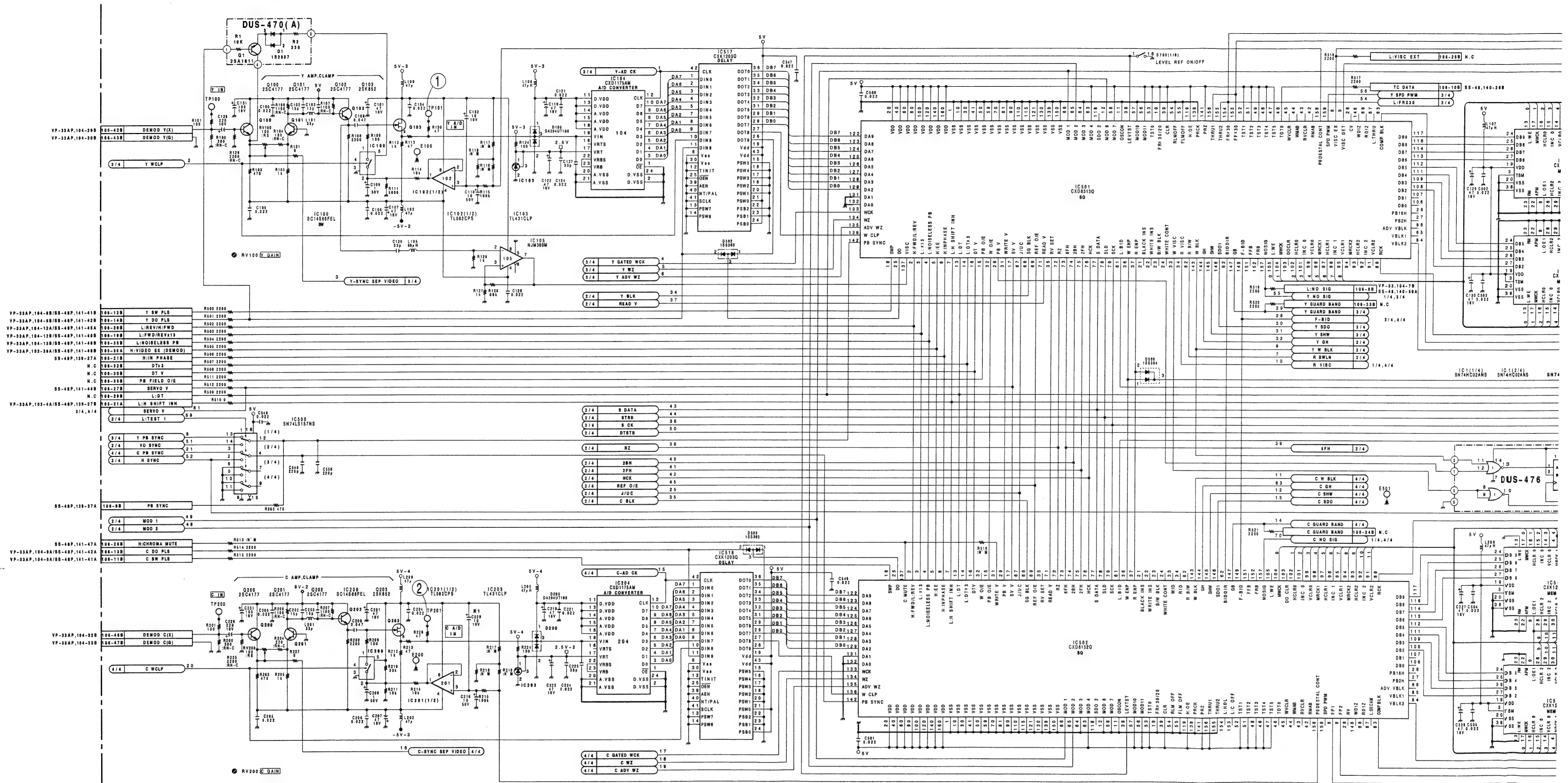
12	C SHW	1/4
63	C GH	1/4
21	C PB SYNC	1/4

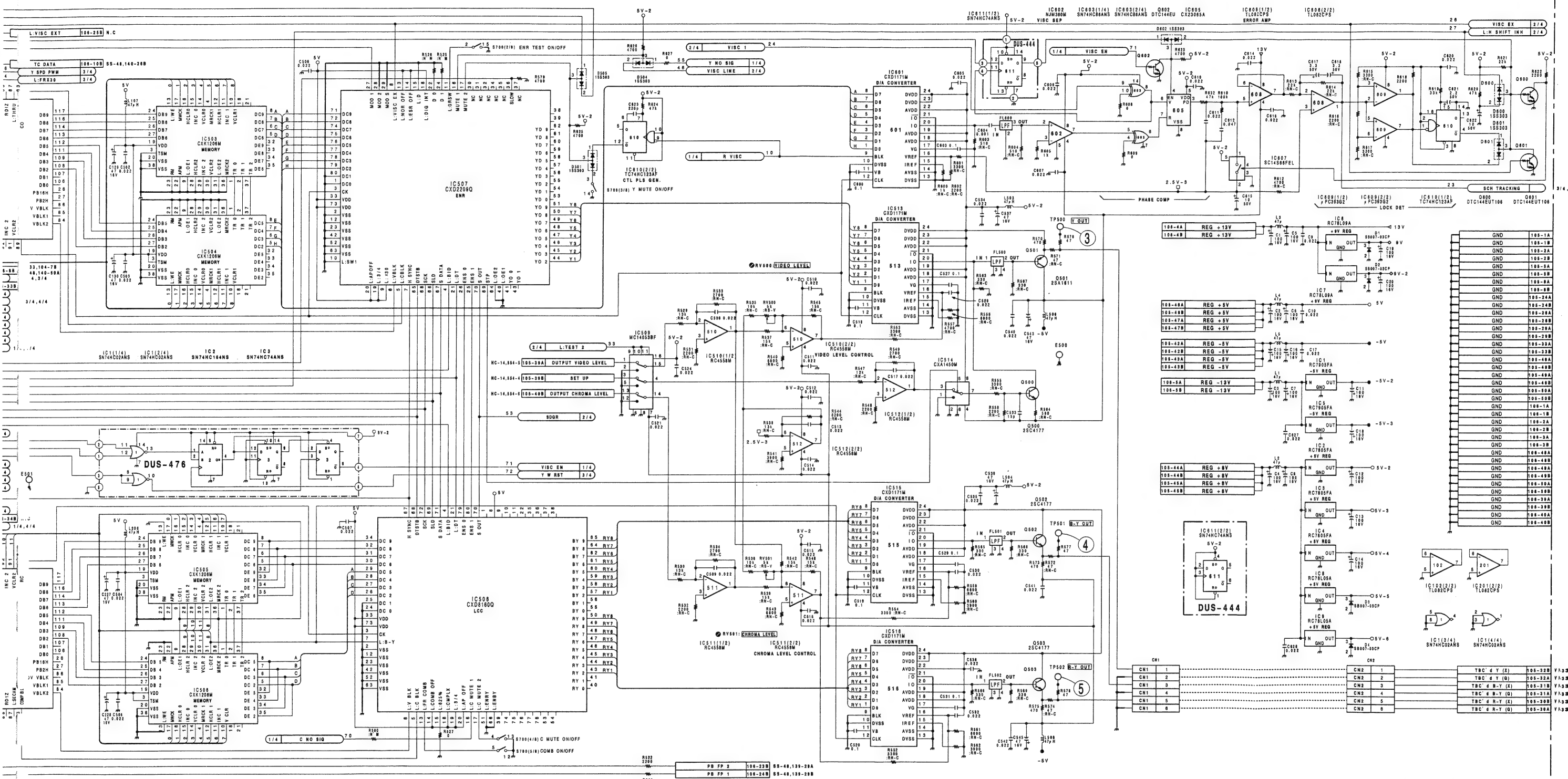
18	C WZ	1/4
49	MOD 1	2/4
20	C WCLP	1/4
17	C GATED WCK	1/4
15	C-AD CK	1/4
19	C ADV WZ	1/4

TBC-18P BOARD (4/4)		
BOARD NO.1-640-033-13		
PVW-2600P (EK);#11151-14585		
PVW-2600P (UC);#10001-10010		

Serial No.(EK);10001 to 11150

TBC-18P(1/4);TIME BASE CORRECTOR,CTDM(EXPAND)



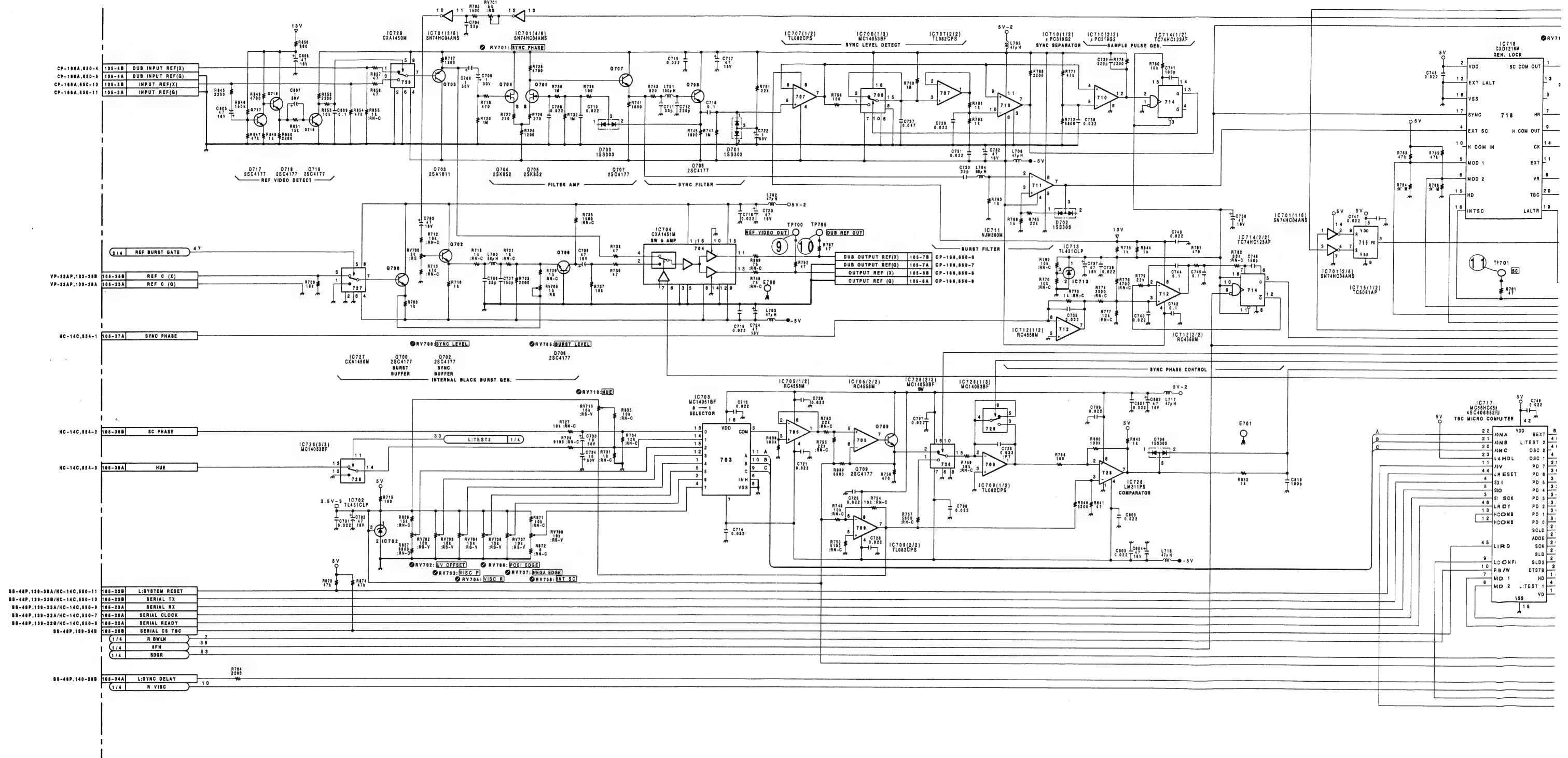


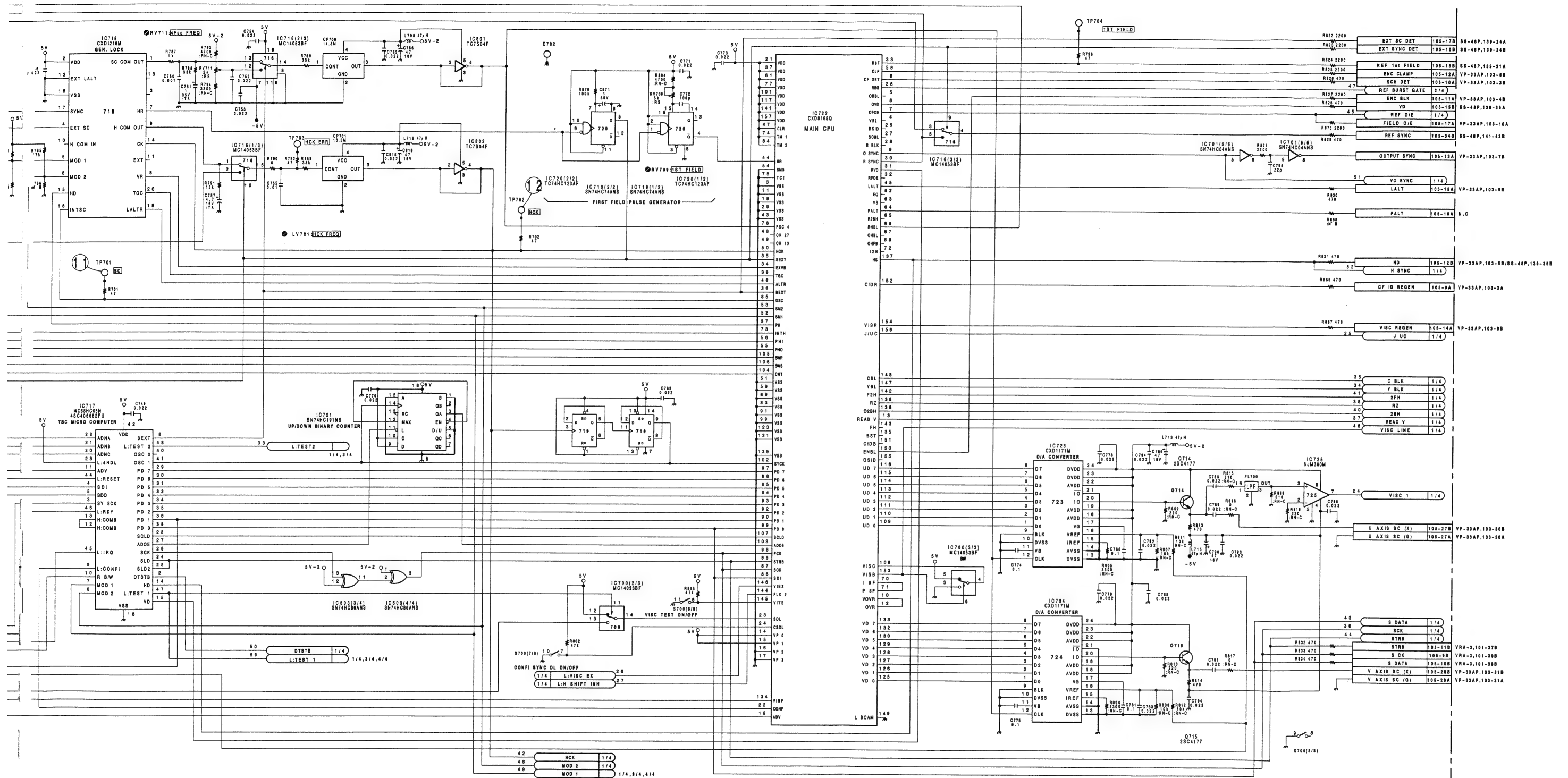
TBC-18P BOARD (1 / 4)

BOARD NO.1-640-033-11,12
PVW-2600P (EK);#10001-11150

Serial No.(EK);10001 to 11150

TBC-18P(2/4);TIME BASE CORRECTOR



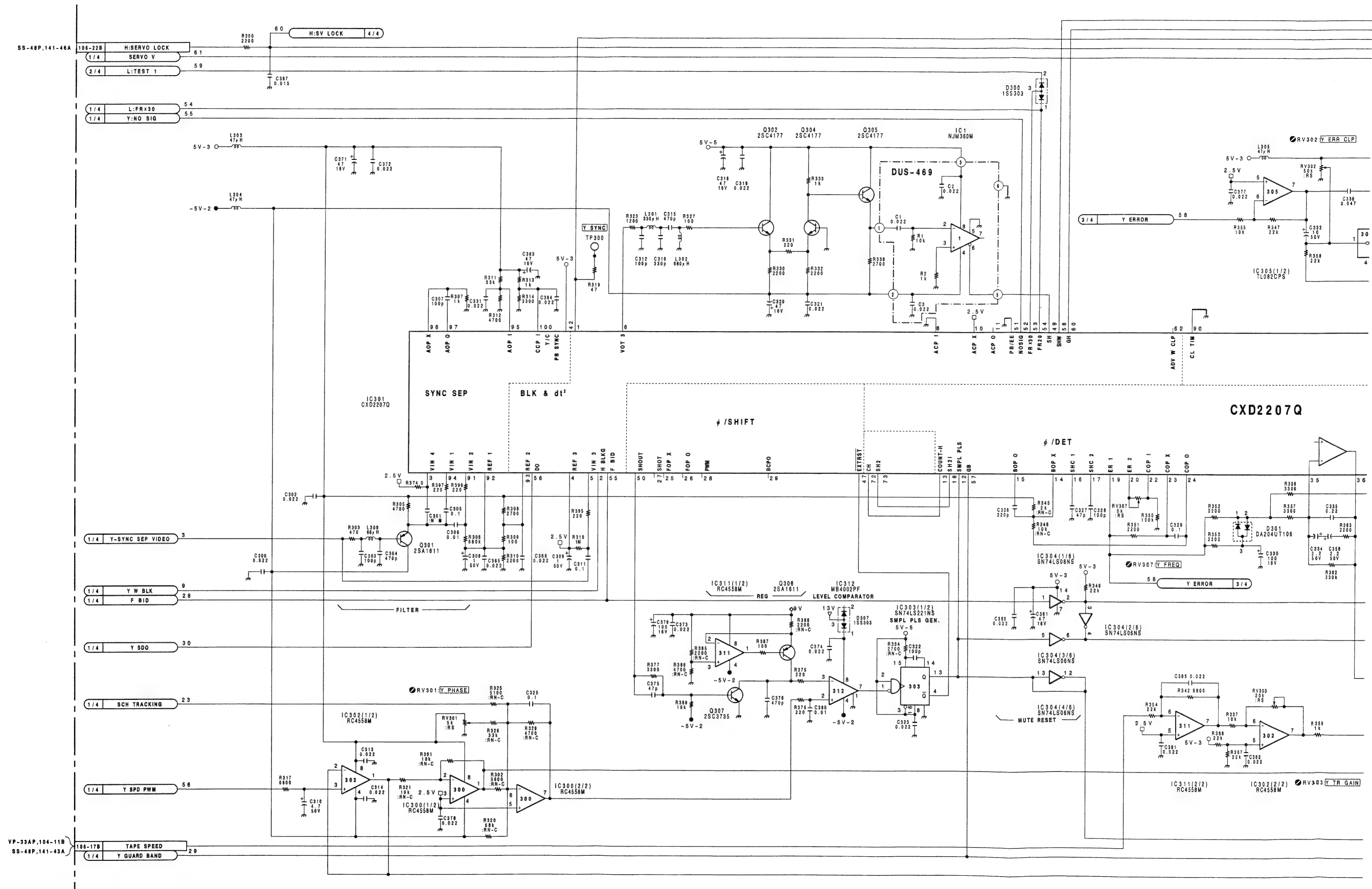


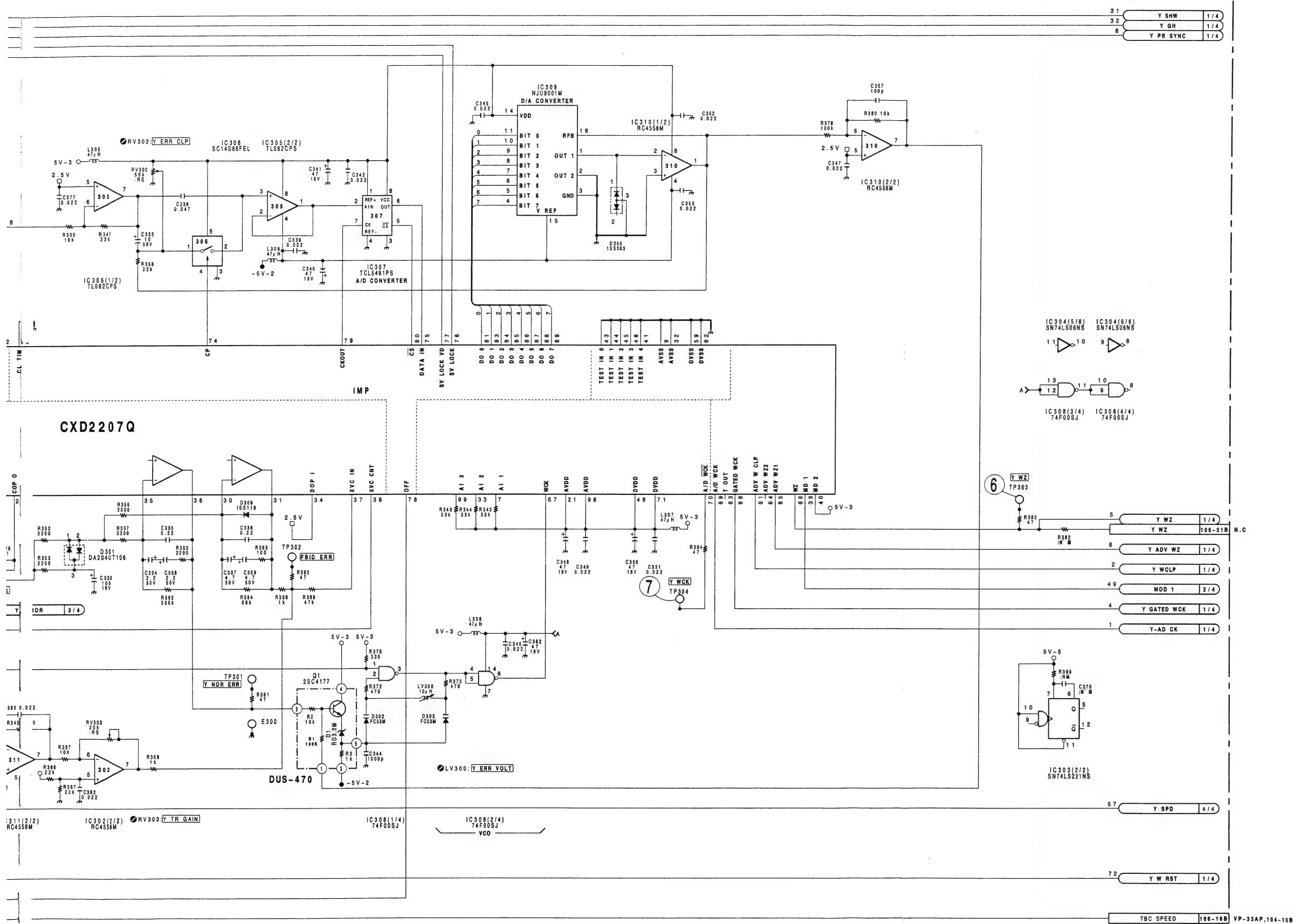
TBC-18P BOARD (2/4)

BOARD NO.1-640-033-11,12
PVW-2600P (EK);#10001-11150

Serial No.(EK);10001 to 11150

TBC-18P(3/4);TIME BASE CORRECTOR(Y-WRITE CLOCK BLOCK)



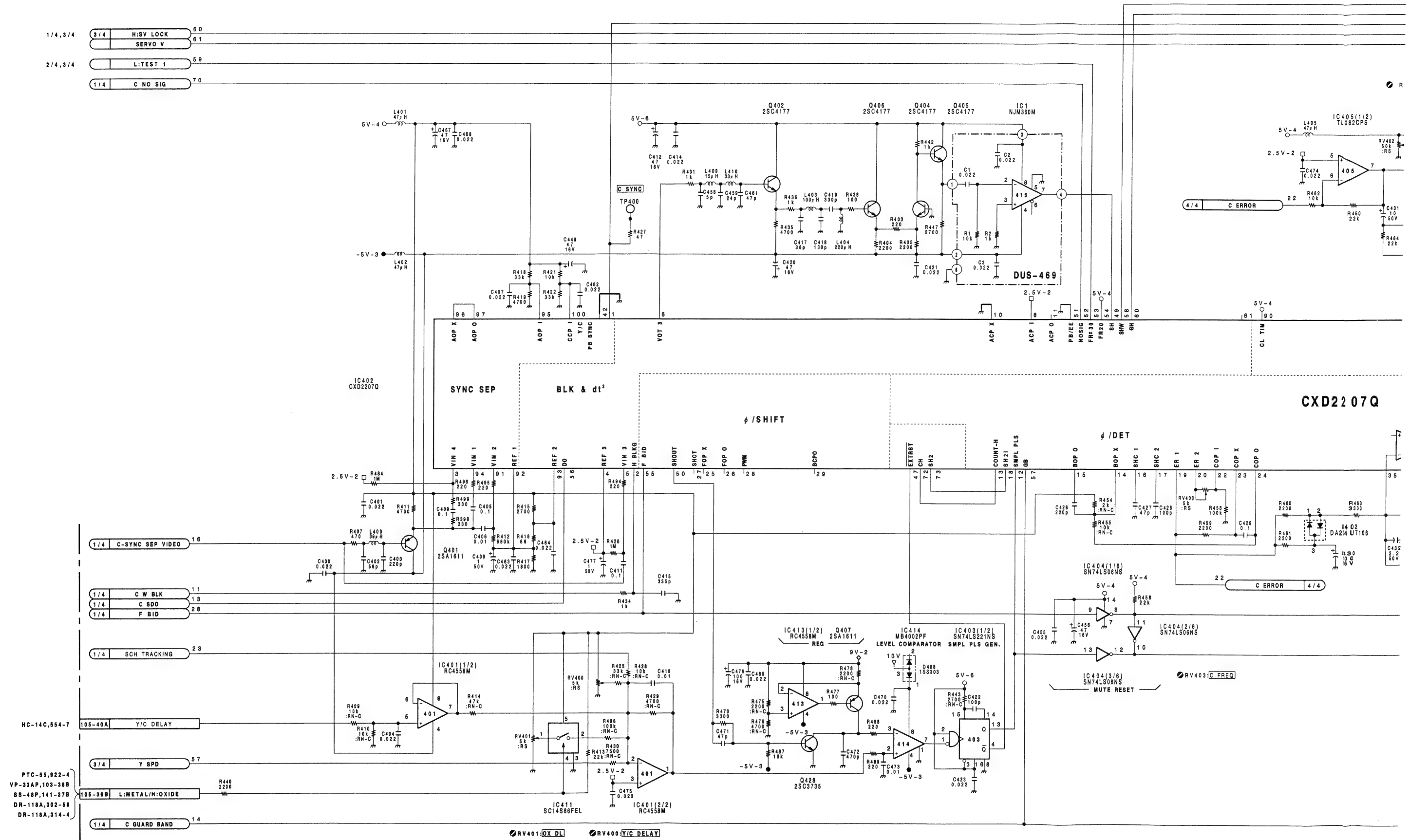


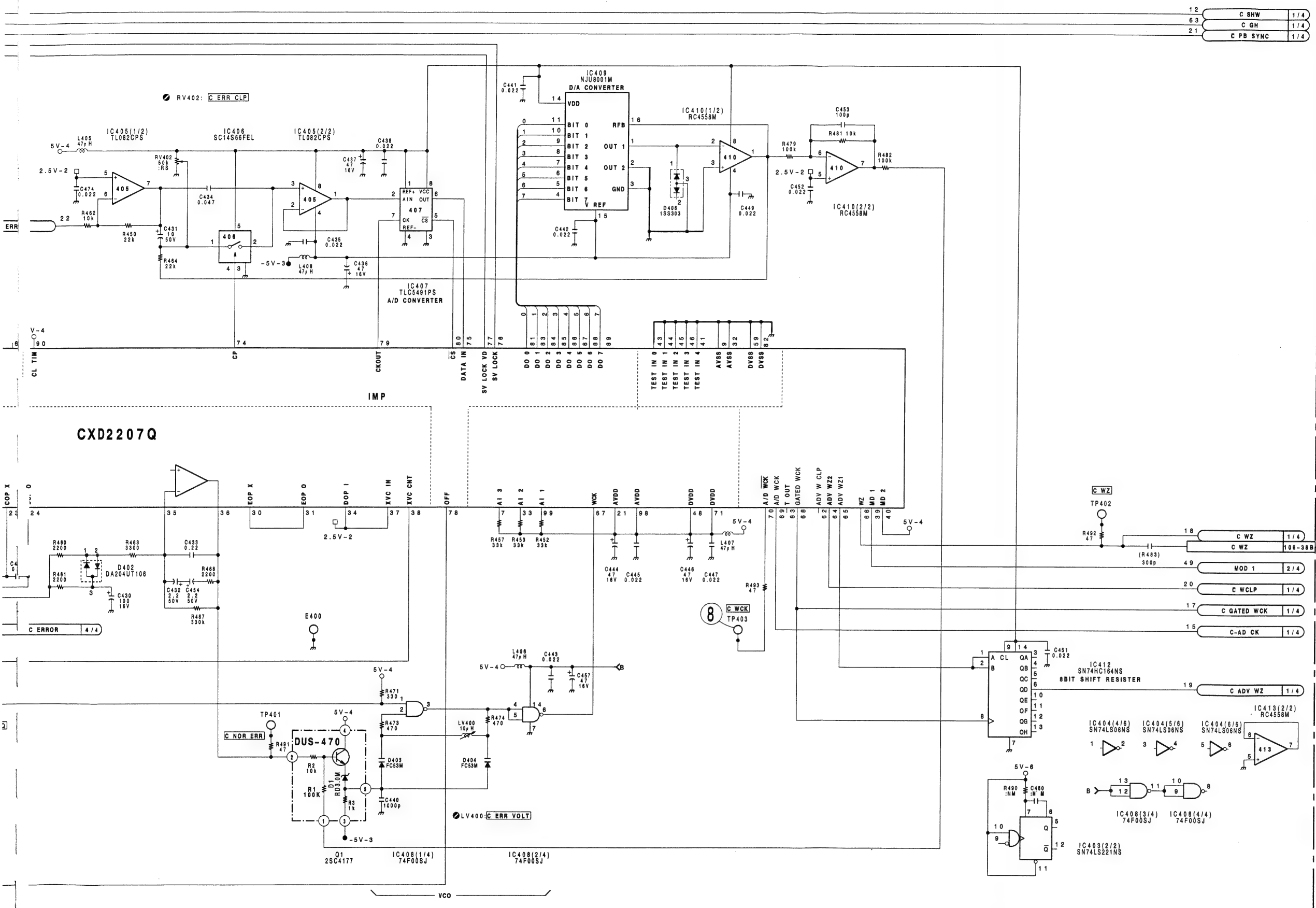
TBC-18P BOARD (3 / 4)

BOARD NO.1-640-033-11,12
PVW-2600P (EK);#10001-11150

Serial No.(EK);10001 to 11150

TBC-18P(4/4);TIME BASE CORRECTOR(C-WRITE CLOCK BLOCK)



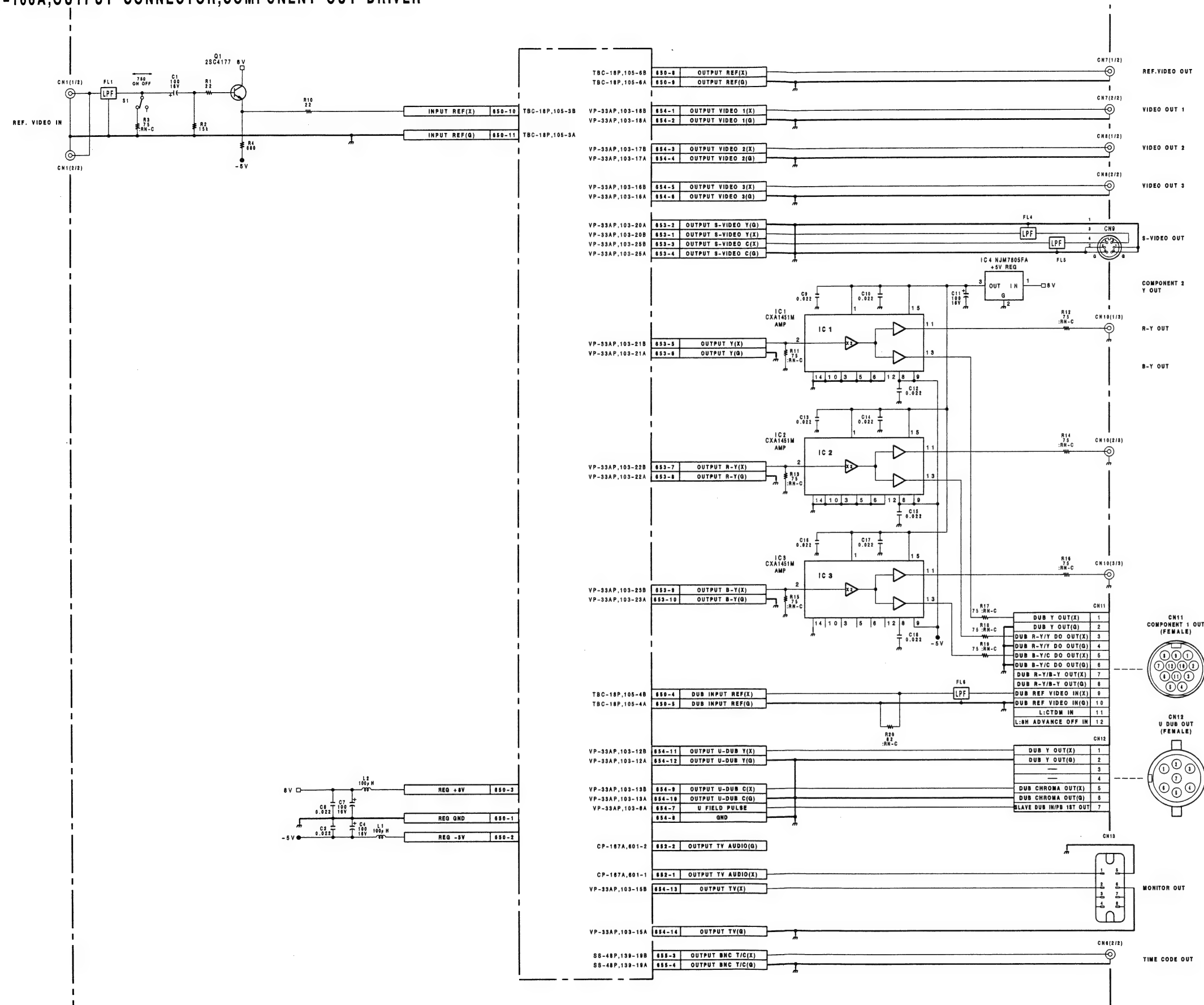


TBC-18P BOARD (4/4)
 BOARD NO.1-640-033-11,12
 PVW-2600P(EK);#10001-11150

Serial No.(EK);15256 and higher
Serial No.(UC);10011 and higher

CP-166A CP-166A

CP-166A;OUTPUT CONNECTOR,COMPONENT OUT DRIVER



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CP-166A BOARD

BOARD NO.1-640-045-23
PVW-2600P(EK) ;#15256 -
PVW-2600P(UC) ;#10011 -

16-21(c)

16-21(c)

A

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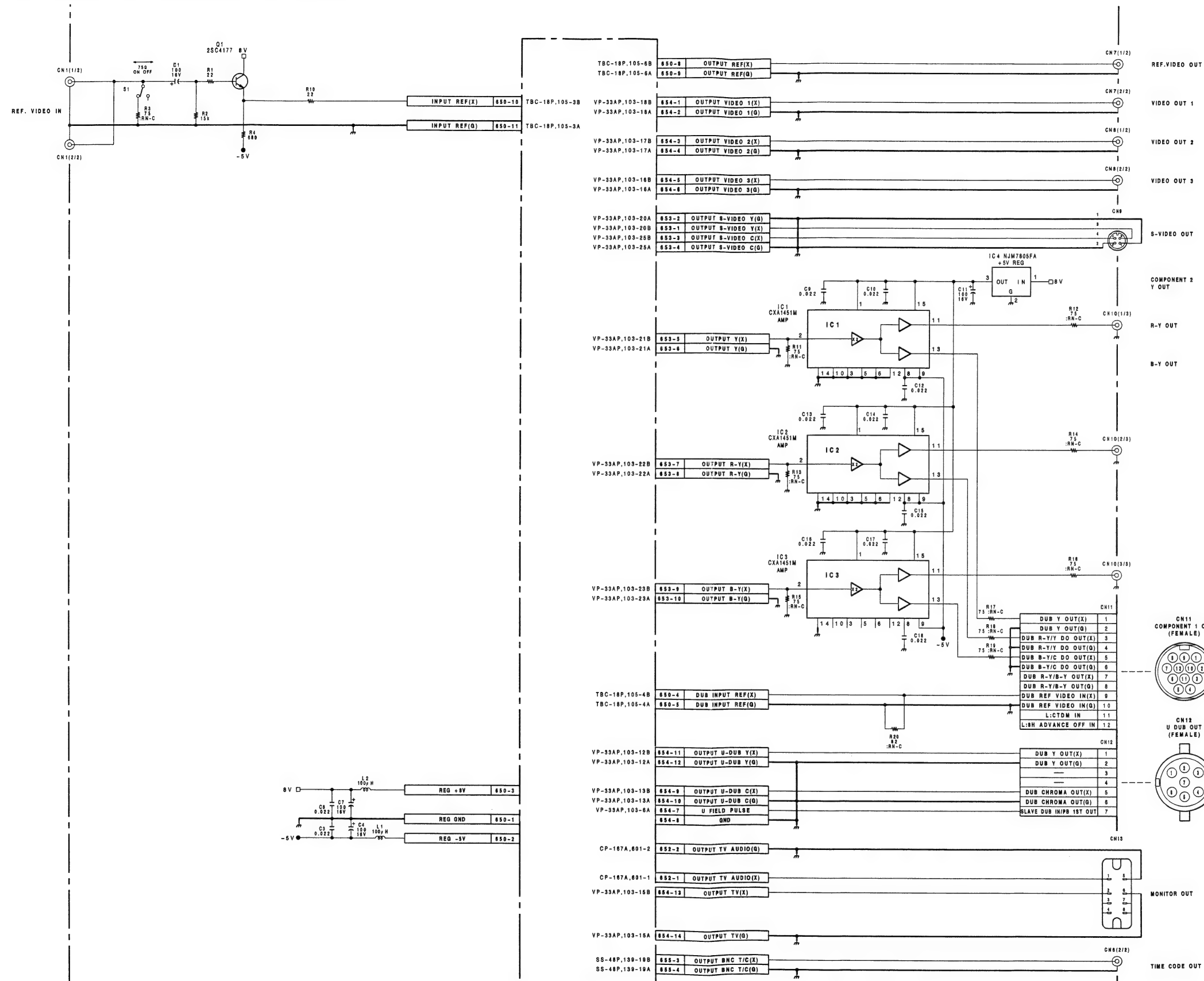
G

H

Serial No.(EK);14586 to 15255
Serial No.(UC);10011 and higher

CP-166A CP-166A

CP-166A;OUTPUT CONNECTOR,COMPONENT OUT DRIVER



CP-166A BOARD

BOARD NO.1-640-045-22
PVW-2600P (EK);#14586-15255
PVW-2600P (UC);#10011-

16-21(b)

16-21(b)

CP-166A CP-166A

Serial No.(EK);10001 to 14585
Serial No.(UC);10001 to 10010

CP-166A;OUTPUT CONNECTOR,COMPONENT OUT DRIVER

16-21(a)

A

B

C

D

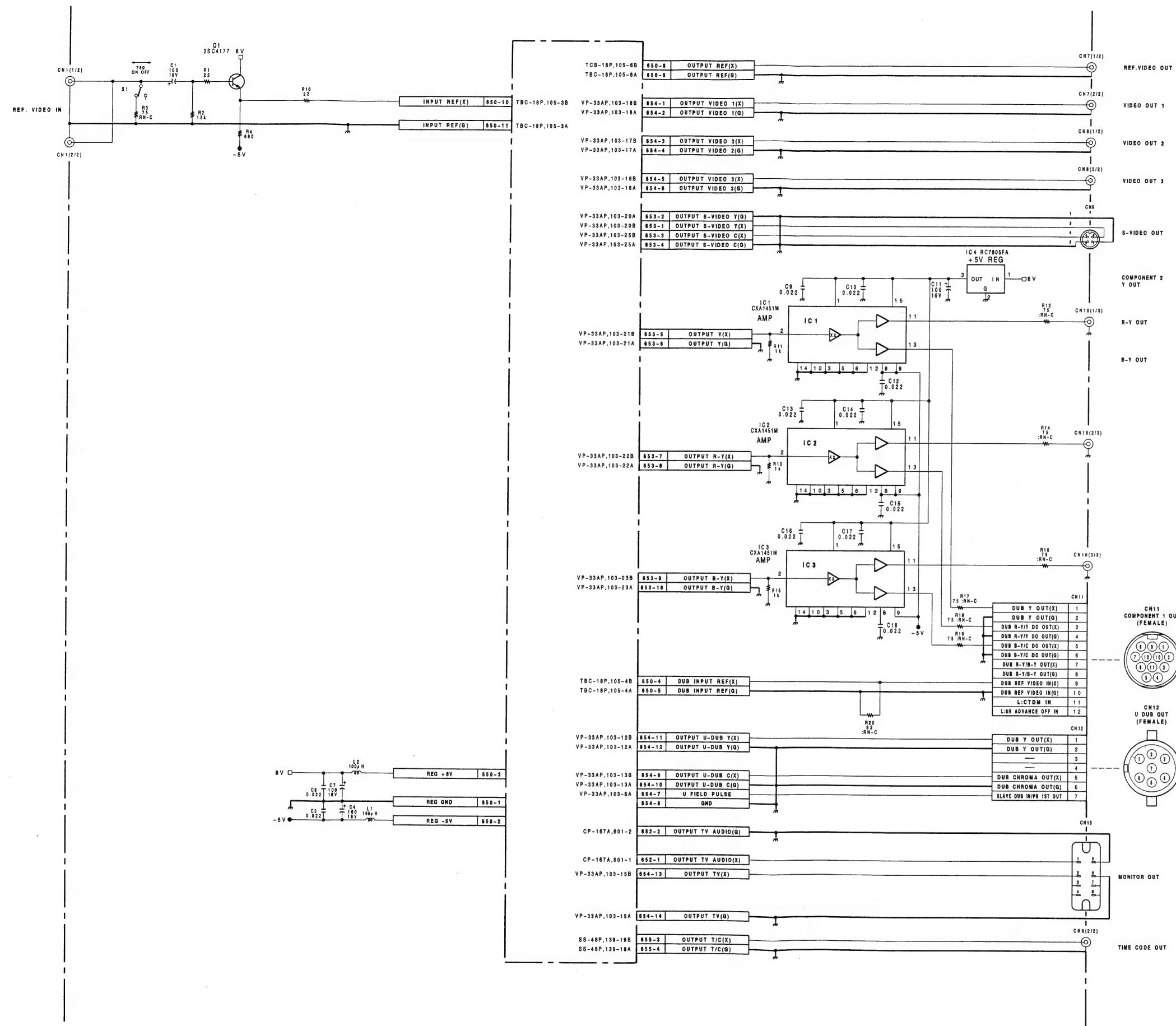
E

F

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H

CP-166A CP-166A



CP-166A BOARD
BOARD NO.1-640-045-21
PVW-2600P (E K);#10001-14585
PVW-2600P (U C);#10001-10010

Serial No.(EK);14586 and higher
Serial No.(UC);10011 and higher

AU-148AP;AUDIO CH-1 PROCESS,DELBY SYSTEM

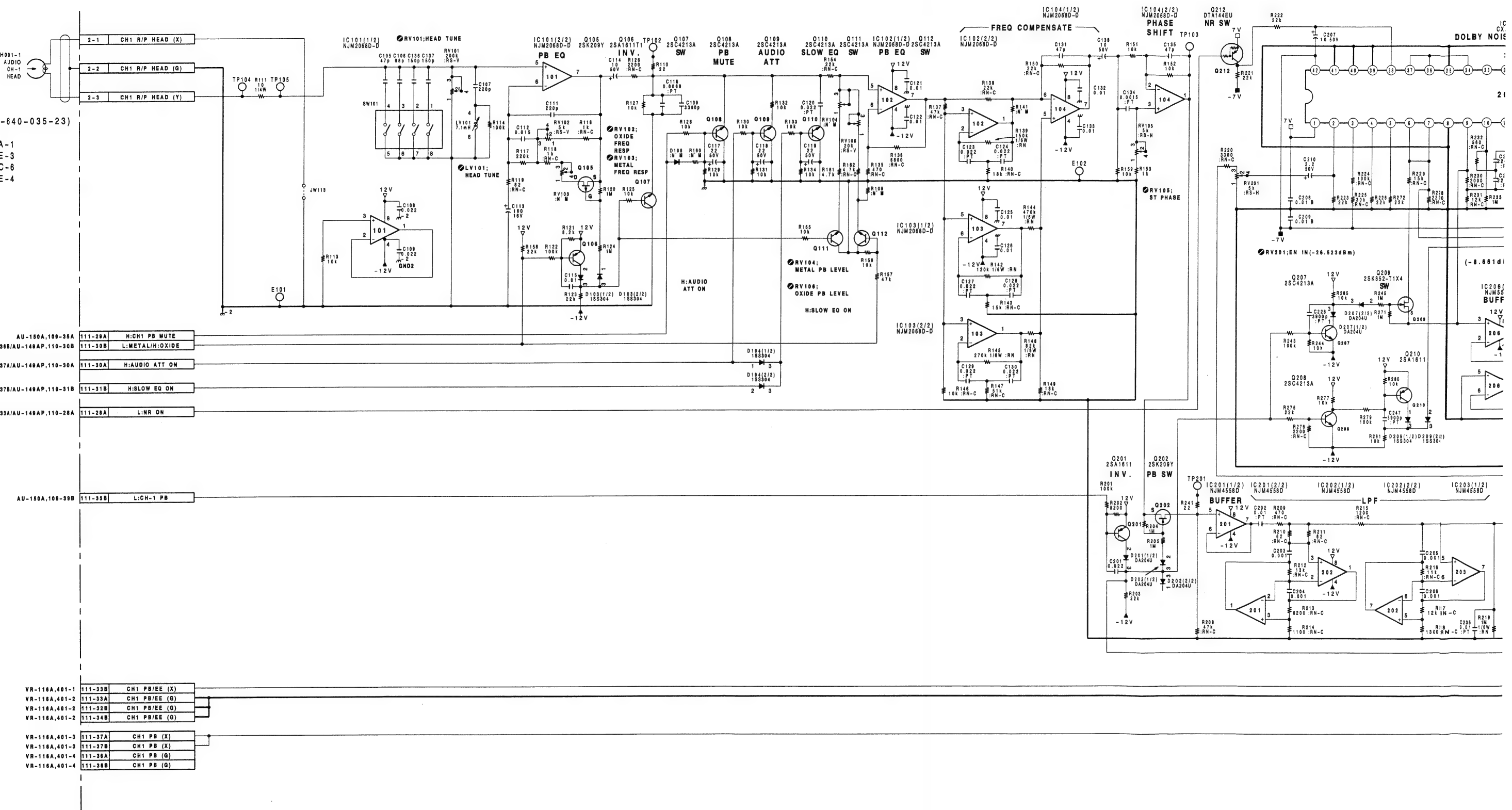
AU-148AP(1-640-035-23)

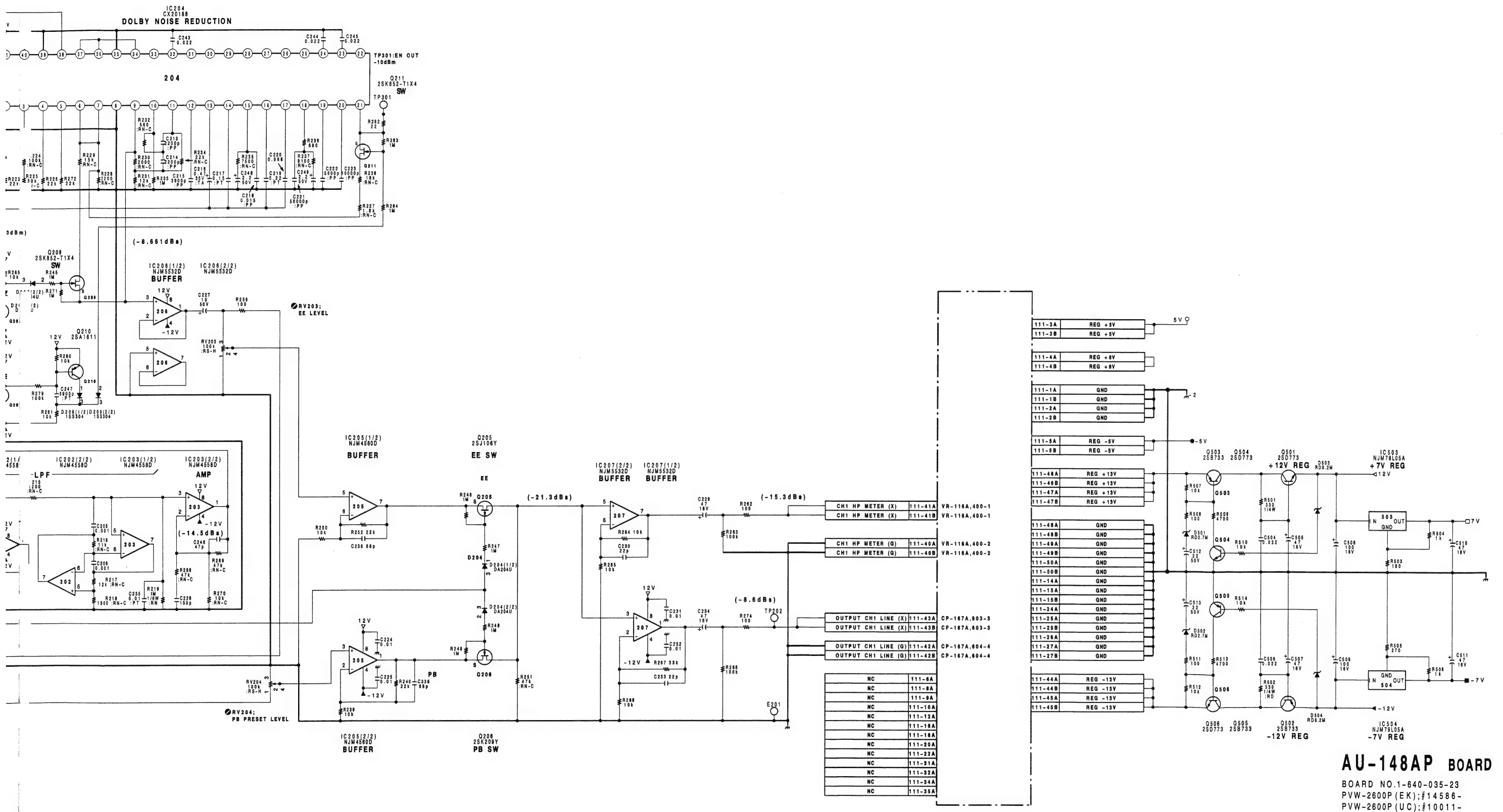
TP102 A-1
TP103 E-3
TP202 C-6
TP301 E-4

AU-150A,109-35A 111-28A H:CH1 PB MUTE
AU-150A,109-36B/AU-148AP,110-30B 111-30B L:METAL/H:OXIDE
AU-150A,109-37A/AU-148AP,110-30A 111-30A H:AUDIO ATT ON
AU-150A,109-37B/AU-148AP,110-31B 111-31B H:SLOW EQ ON
AU-150A,109-35A/AU-148AP,110-28A 111-28A L:NR ON
AU-150A,109-39B 111-39B L:CH-1 PB

VR-116A,401-1 111-33B CH1 PB/EE (X)
VR-116A,401-2 111-33A CH1 PB/EE (G)
VR-116A,401-2 111-32B CH1 PB/EE (G)
VR-116A,401-2 111-34B CH1 PB/EE (G)
VR-116A,401-3 111-37A CH1 PB (X)
VR-116A,401-3 111-37B CH1 PB (X)
VR-116A,401-4 111-36A CH1 PB (G)
VR-116A,401-4 111-36B CH1 PB (G)

16-22(c)



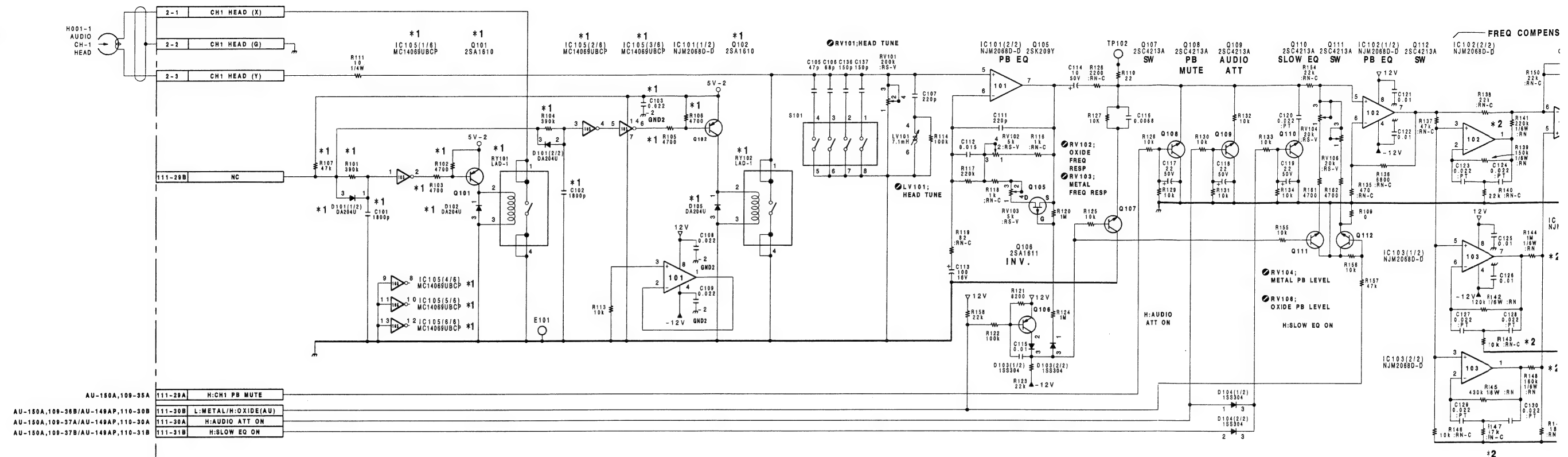


Serial No.(EK);11151 to 14585
Serial No.(UC);10001 to 10010

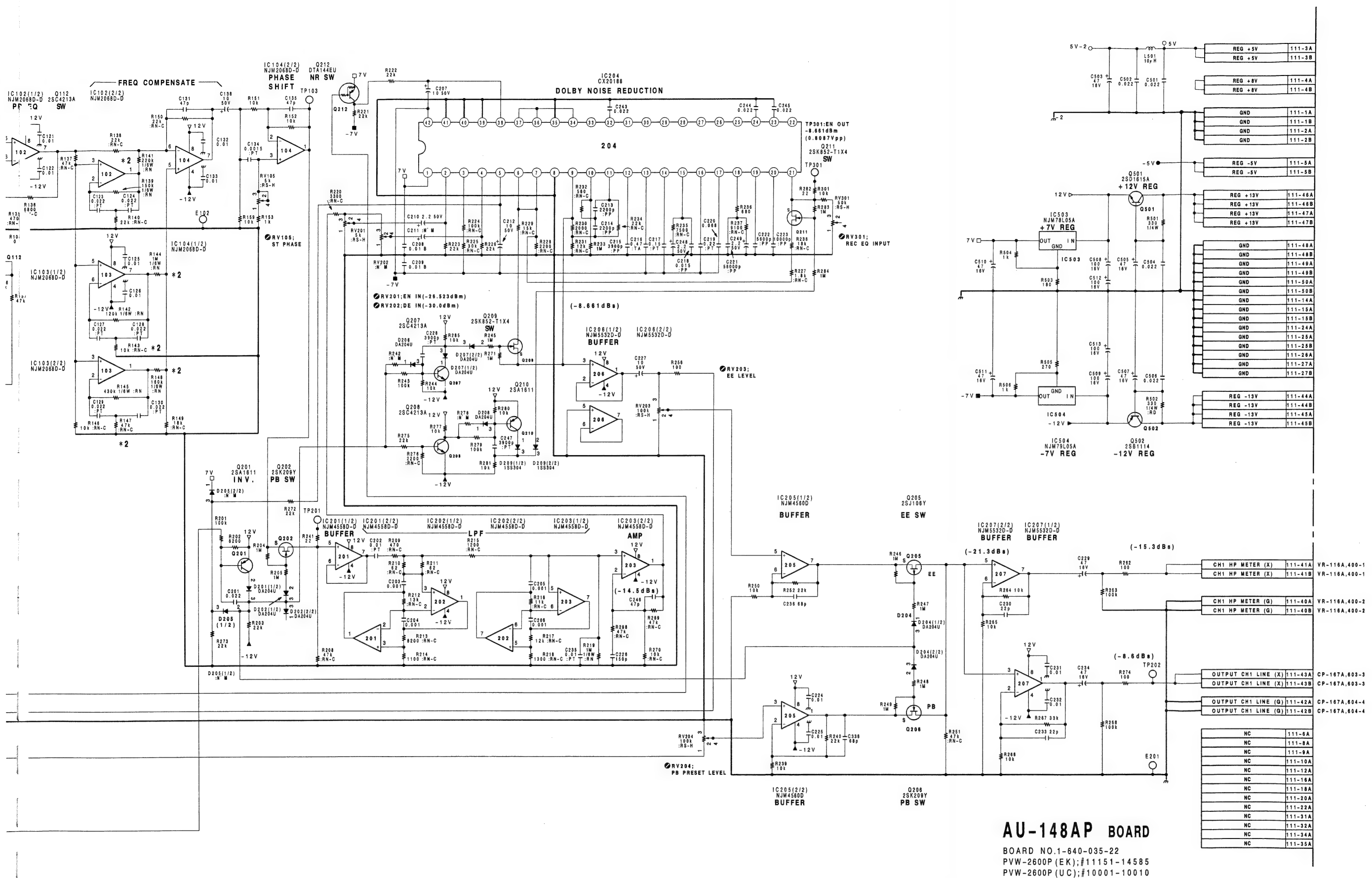
AU148AP;AUDIO CH-1 PROCESS,DOLBY SYSTEM

AU-148AP(1-640-035-22)

TP102 A-1
TP103 E-3
TP104 C-2
TP105 C-2
TP201 E-3
TP202 C-6
TP301 E-4



AU-150A,109-33A/AU-148AP,110-28A	111-28A	L:NR ON
VR-116A,401-1	111-33B	CH1 PB/EE (X)
VR-116A,401-2	111-33A	CH1 PB/EE (G)
VR-116A,401-2	111-32B	CH1 PB/EE (G)
VR-116A,401-2	111-34B	CH1 PB/EE (G)
VR-116A,401-3	111-37A	CH1 PB (X)
VR-116A,401-3	111-37B	CH1 PB (X)
VR-116A,401-4	111-36A	CH1 PB (G)
VR-116A,401-4	111-36B	CH1 PB (G)
AU-150A,109-30B	111-35B	L:CH-1 PB

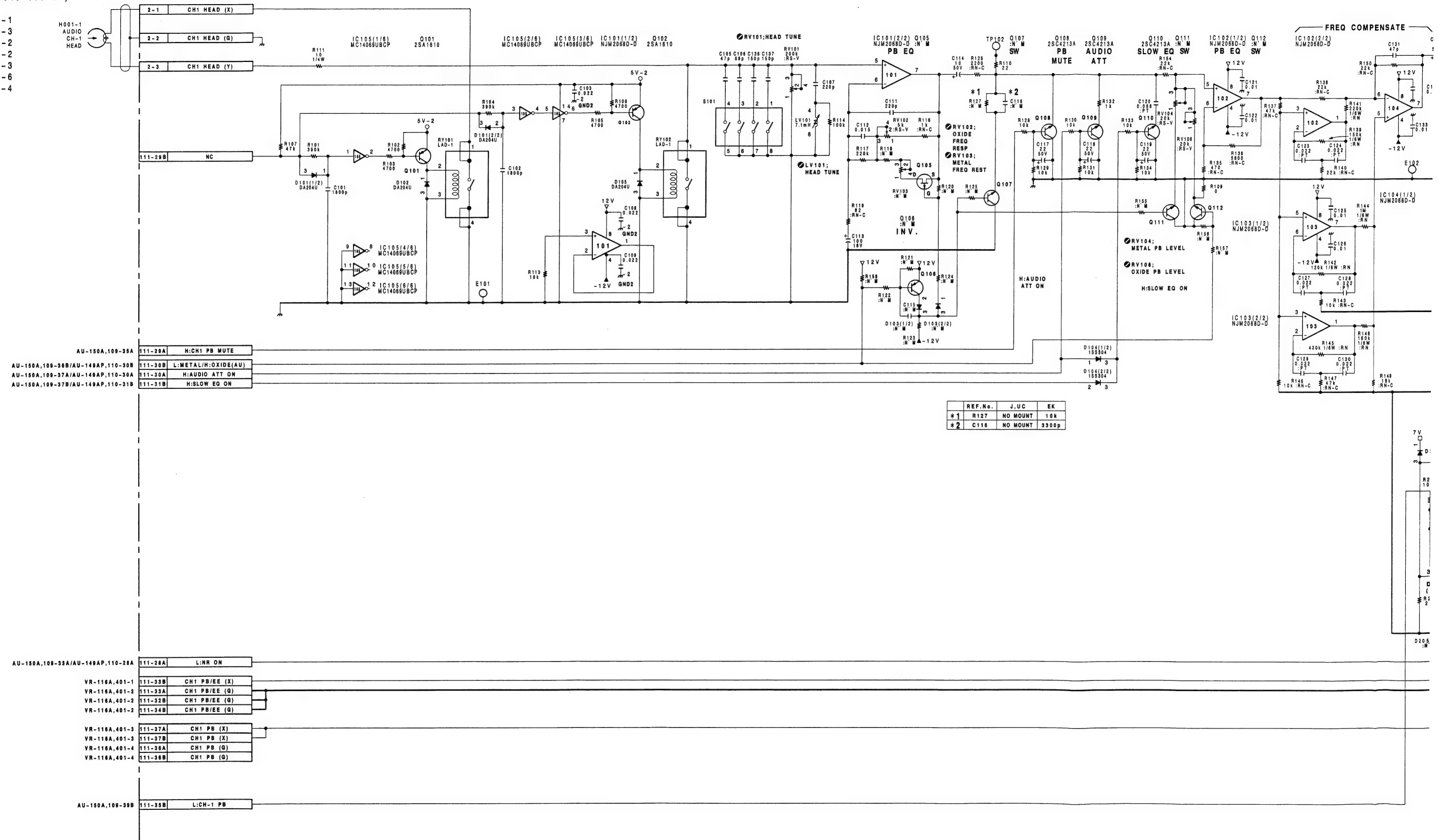


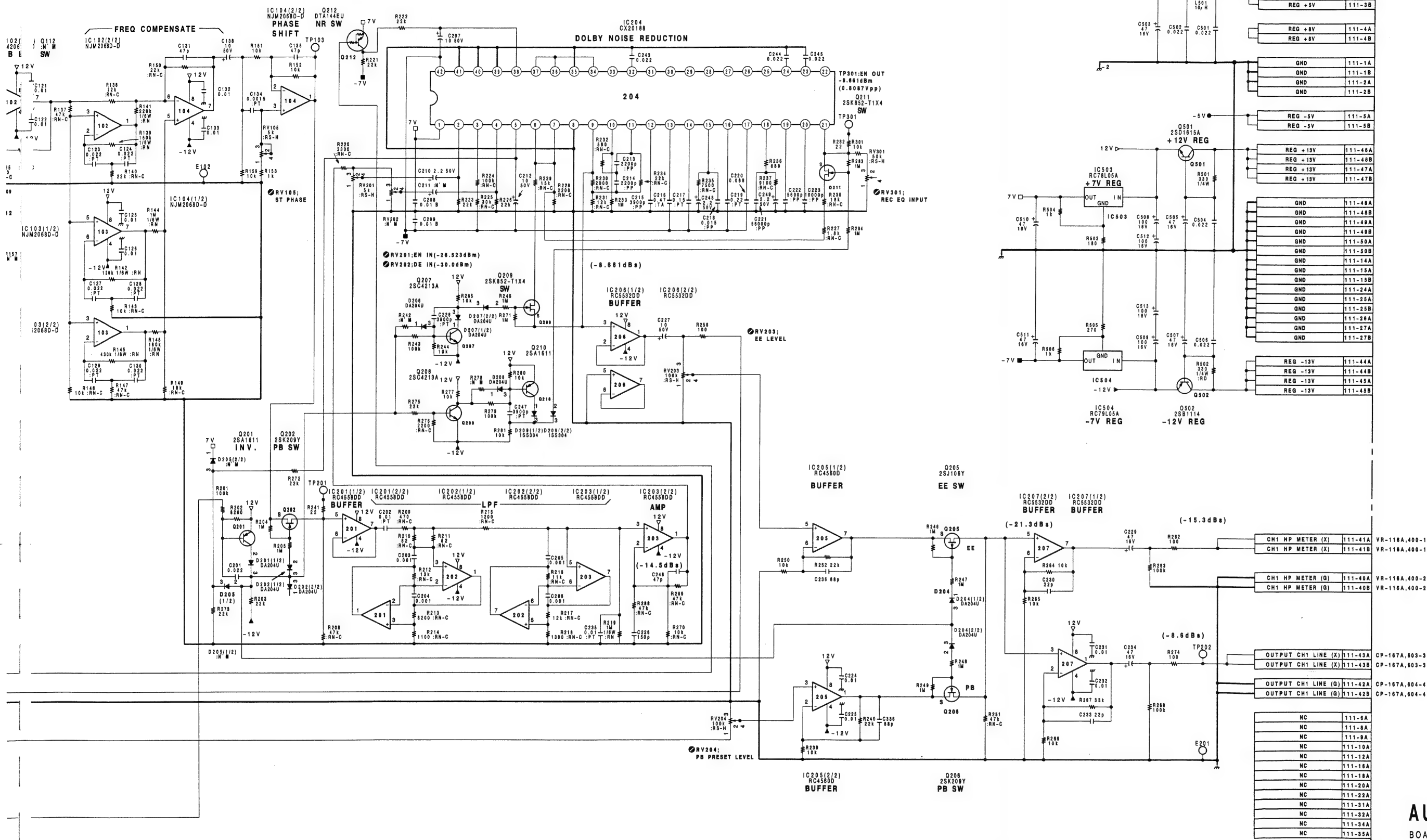
Serial No.(EK);10001 to 11150

AU-148AP;AUDIO CH-1 PROCESS,DOLBY SYSTEM

A U-148 A P (1-640-035-21)

TP102	A-1
TP103	E-3
TP104	C-2
TP105	C-2
TP201	E-3
TP202	C-6
TP301	E-4





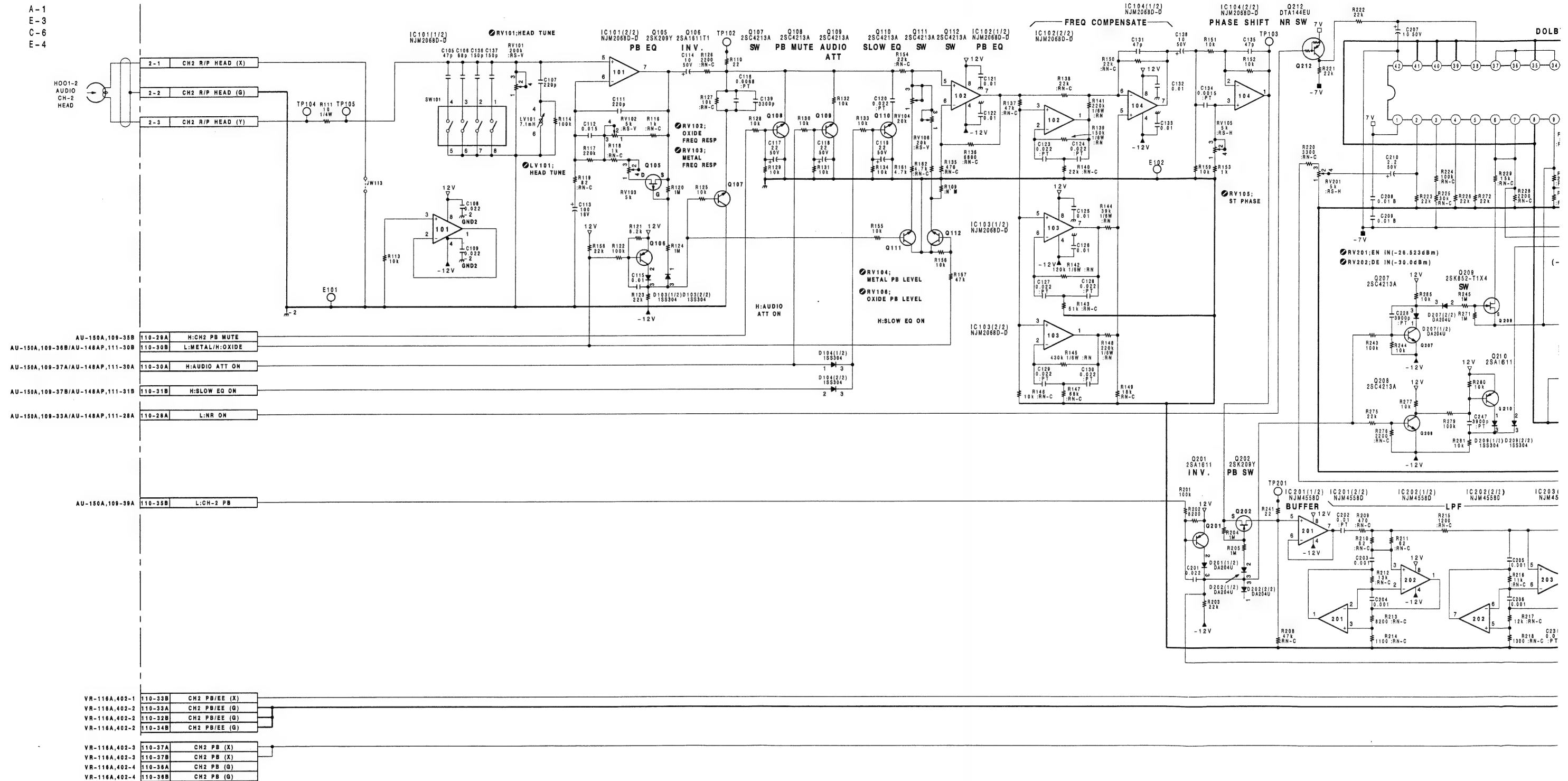
Serial No.(EK);14586 and higher
Serial No.(UC);10011 and higher

AU-149AP AU-149AP

AU-149AP;AUDIO CH-2 PROCESS,DOLBY SYSTEM

AU-149AP(1-640-036-23)

TP102 A-1
TP103 E-3
TP202 C-6
TP301 E-4



AU-149AP BOARD

BOARD NO.1-640-036-23
PVW-2600P (EK);#14586-
PVW-2600P (UC);#10011-

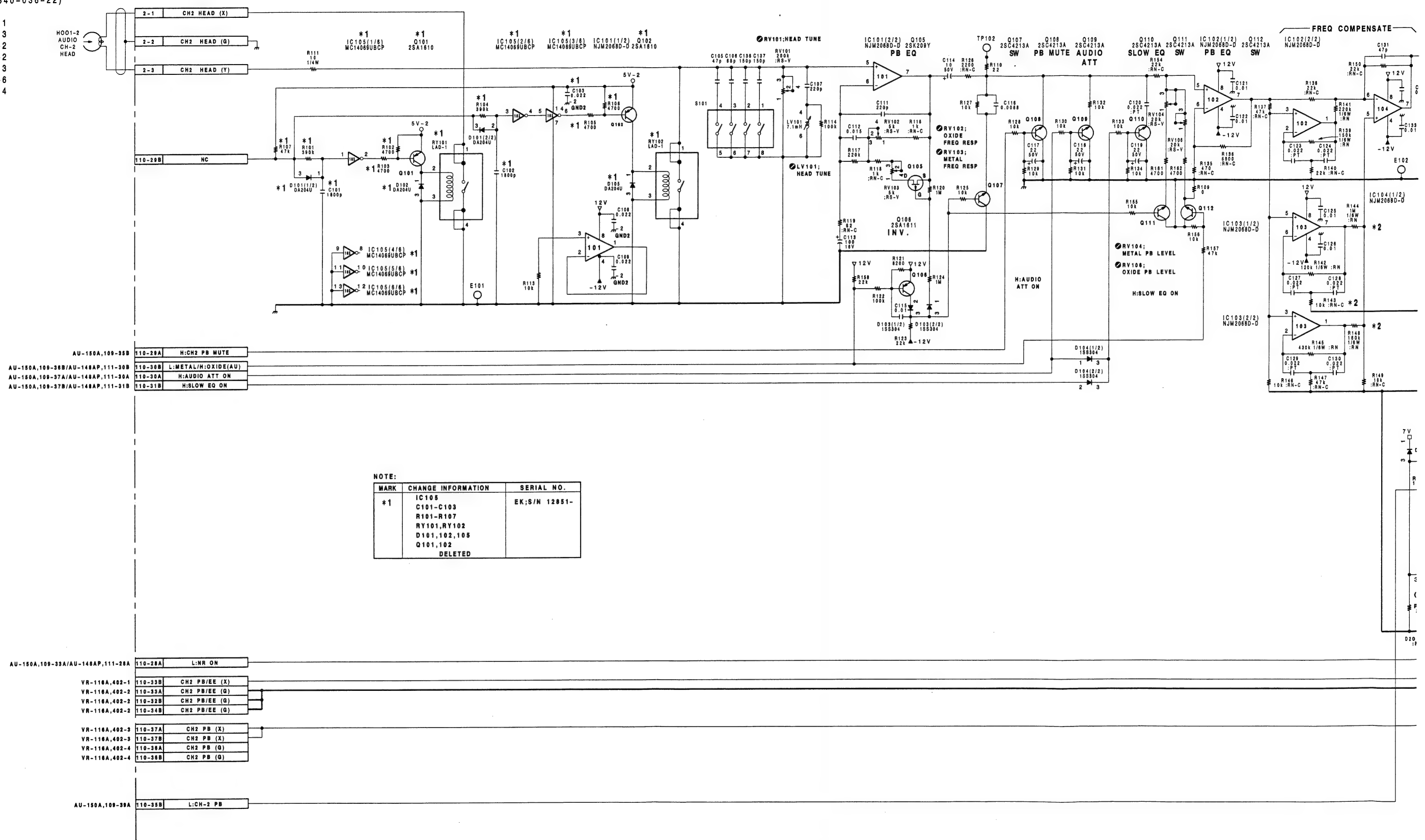
Serial No.(EK);11151 to 14585
Serial No.(UC);10011 to 10010

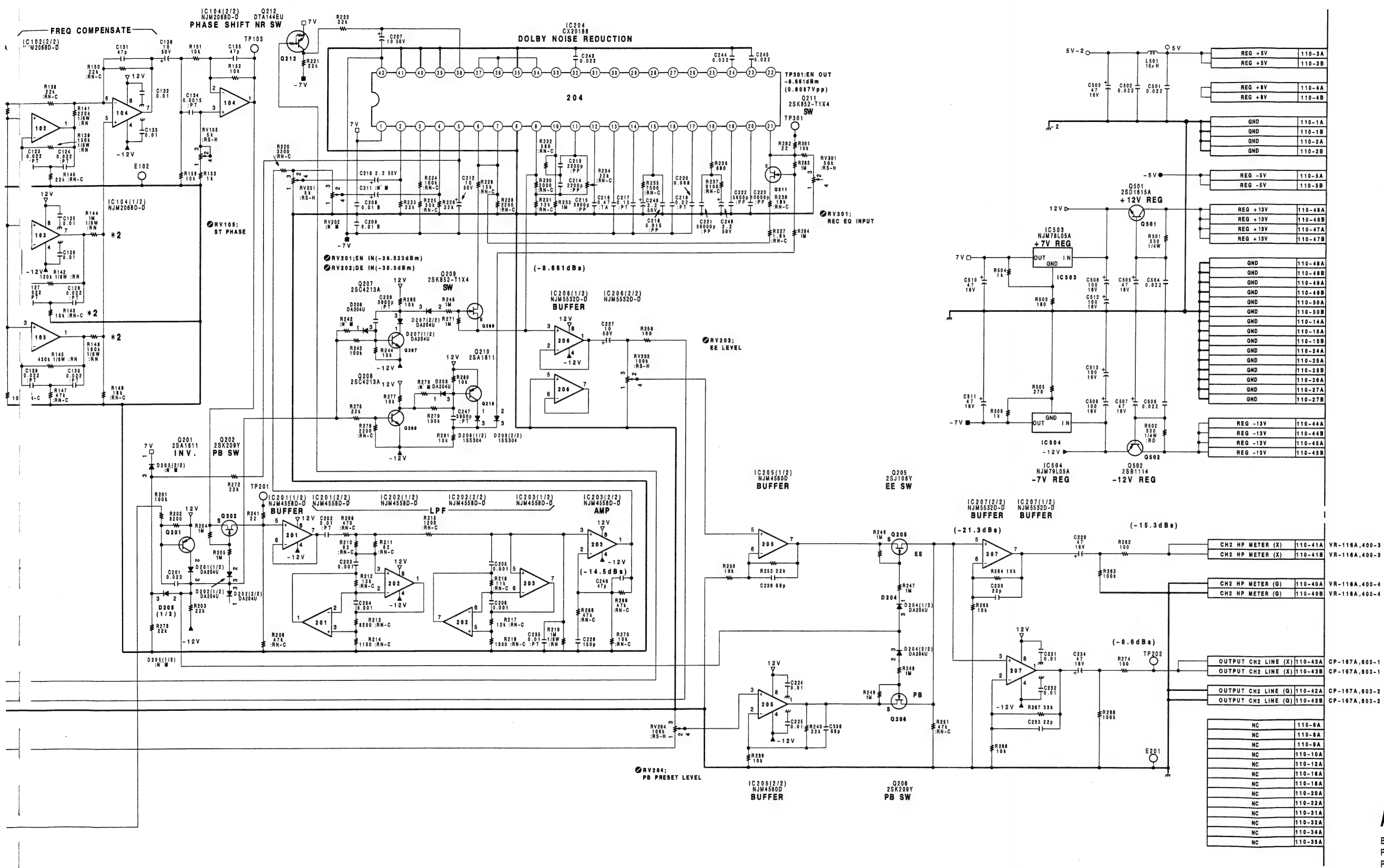
AU-149AP AU-149AP

AU-149AP;AUDIO CH-2 PROCESS,DOLBY SYSTEM

AU-149AP(1-640-036-22)

TP102 A-1
TP103 E-3
TP104 C-2
TP105 C-2
TP201 E-3
TP202 C-6
TP301 E-4



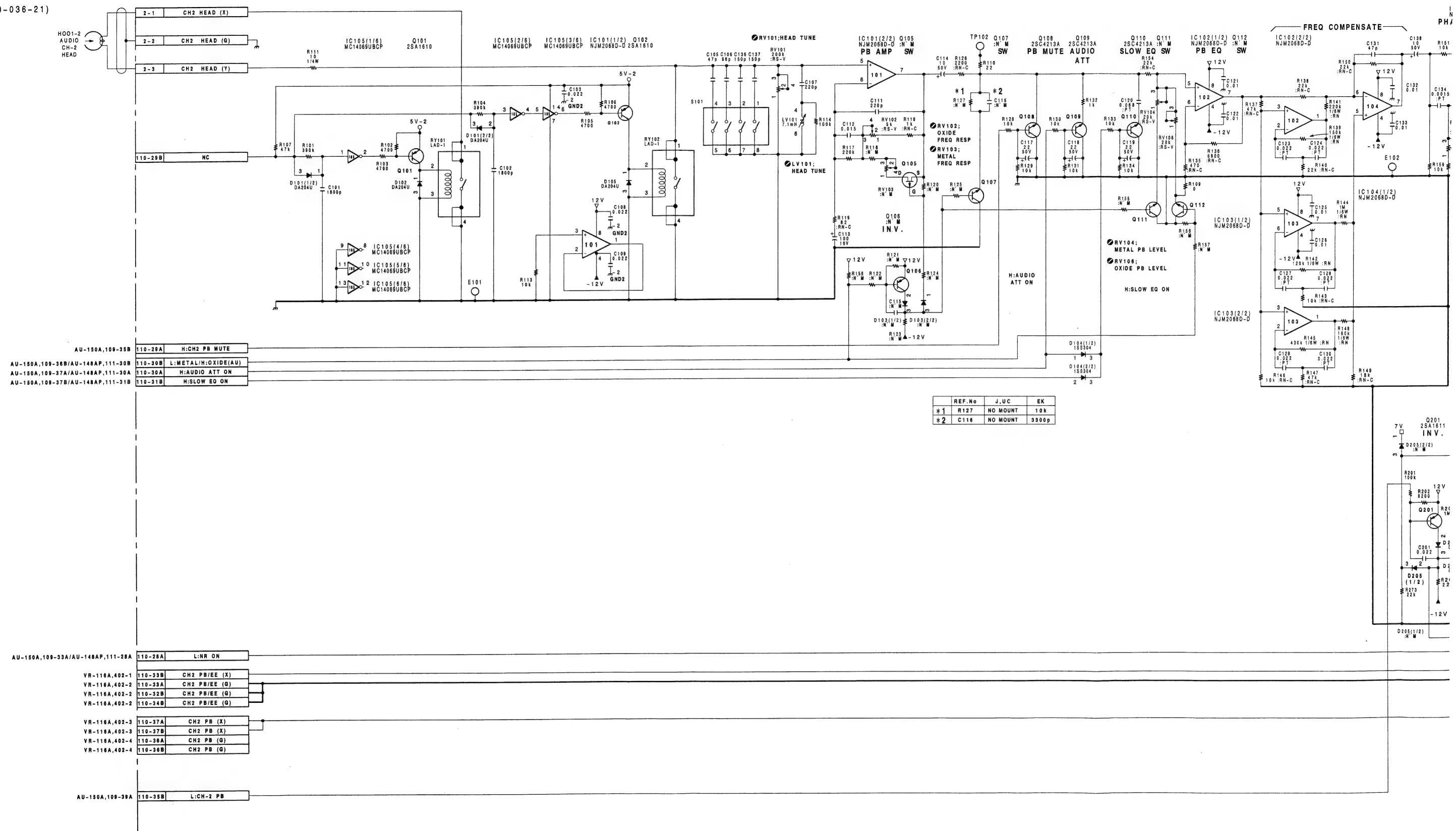


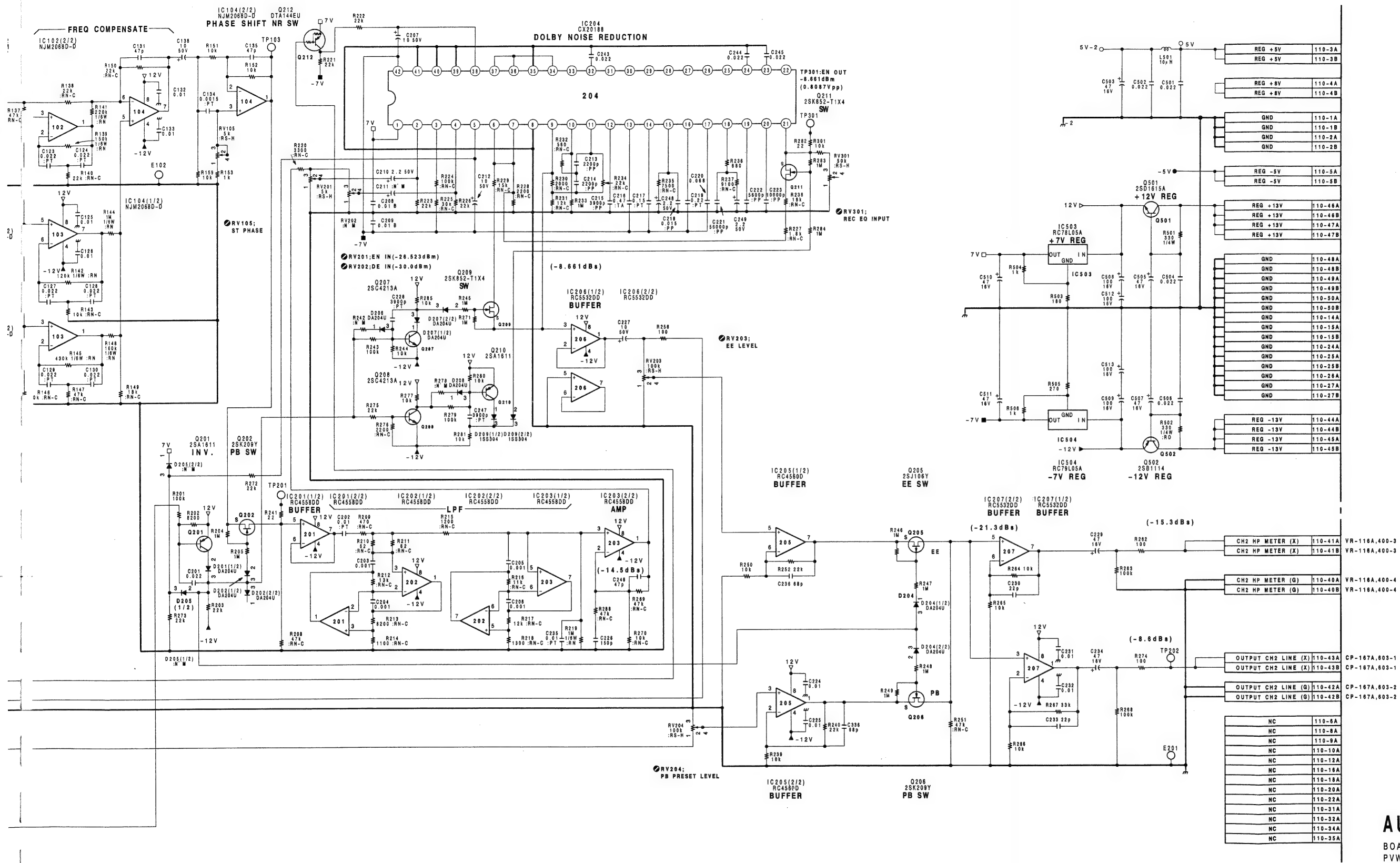
Serial No.(EK);10001 to 11150

AU-149AP;AUDIO CH-2 PROCESS,DOLBY SYSTEM

U-149AP(1-640-036-21)

TP102	A-1
TP103	E-3
TP104	C-2
TP105	C-2
TP201	E-3
TP202	C-6
TP301	E-4





AU-149AP BOARD

BOARD NO.1-640-036-21
PVW-2600P (EK);#10001-11150

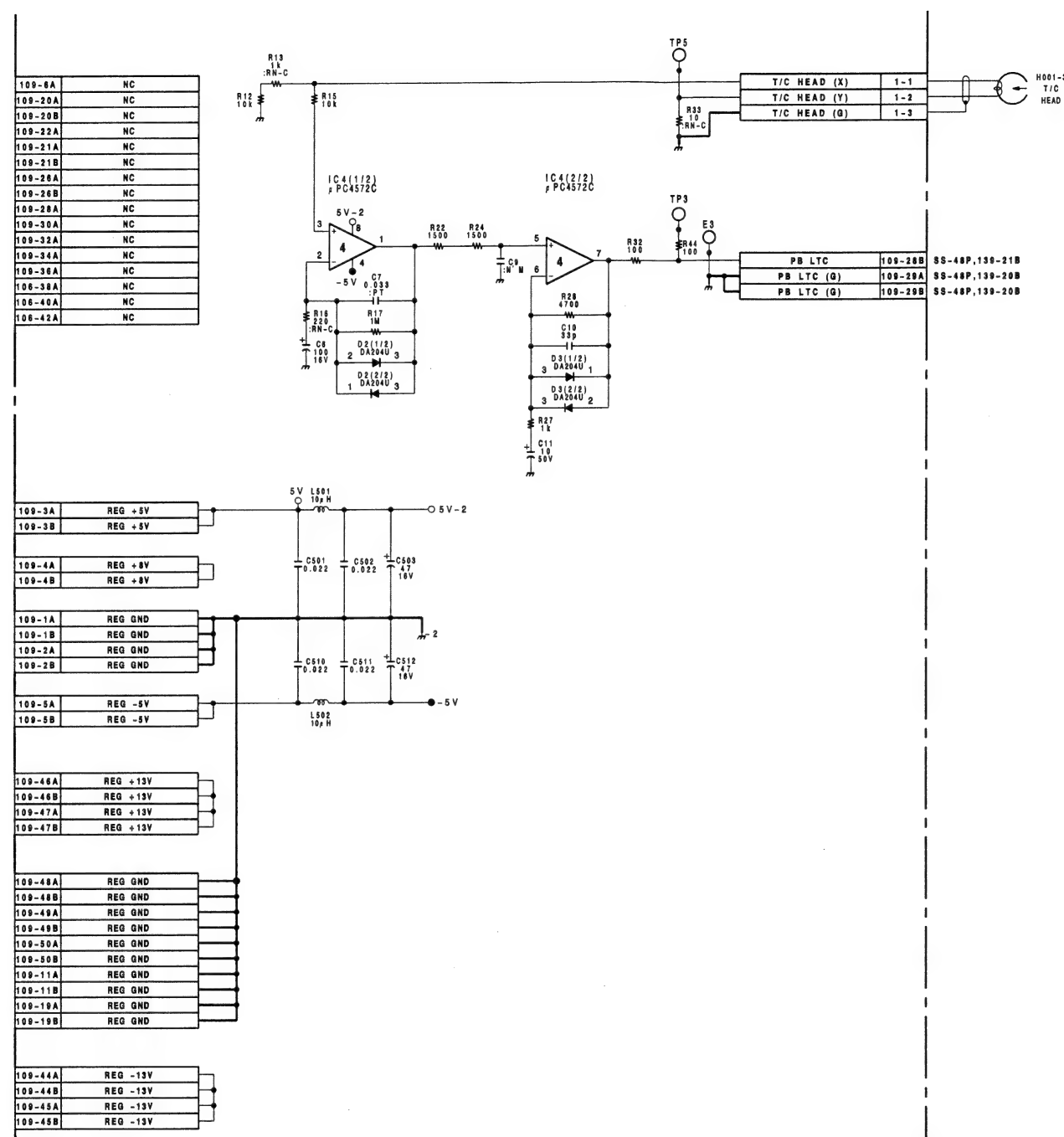
Serial No. (E K); 14586 and higher
Serial No. (U C); 10011 and higher

AU-150A(1-640-037-23

TP3 B-3

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AU-150A



BOARD NO.1-640-037-23
PVW-2600P (EK);#14586-
PVW-2600P (UC);#10011-

16-24(c)

A

B

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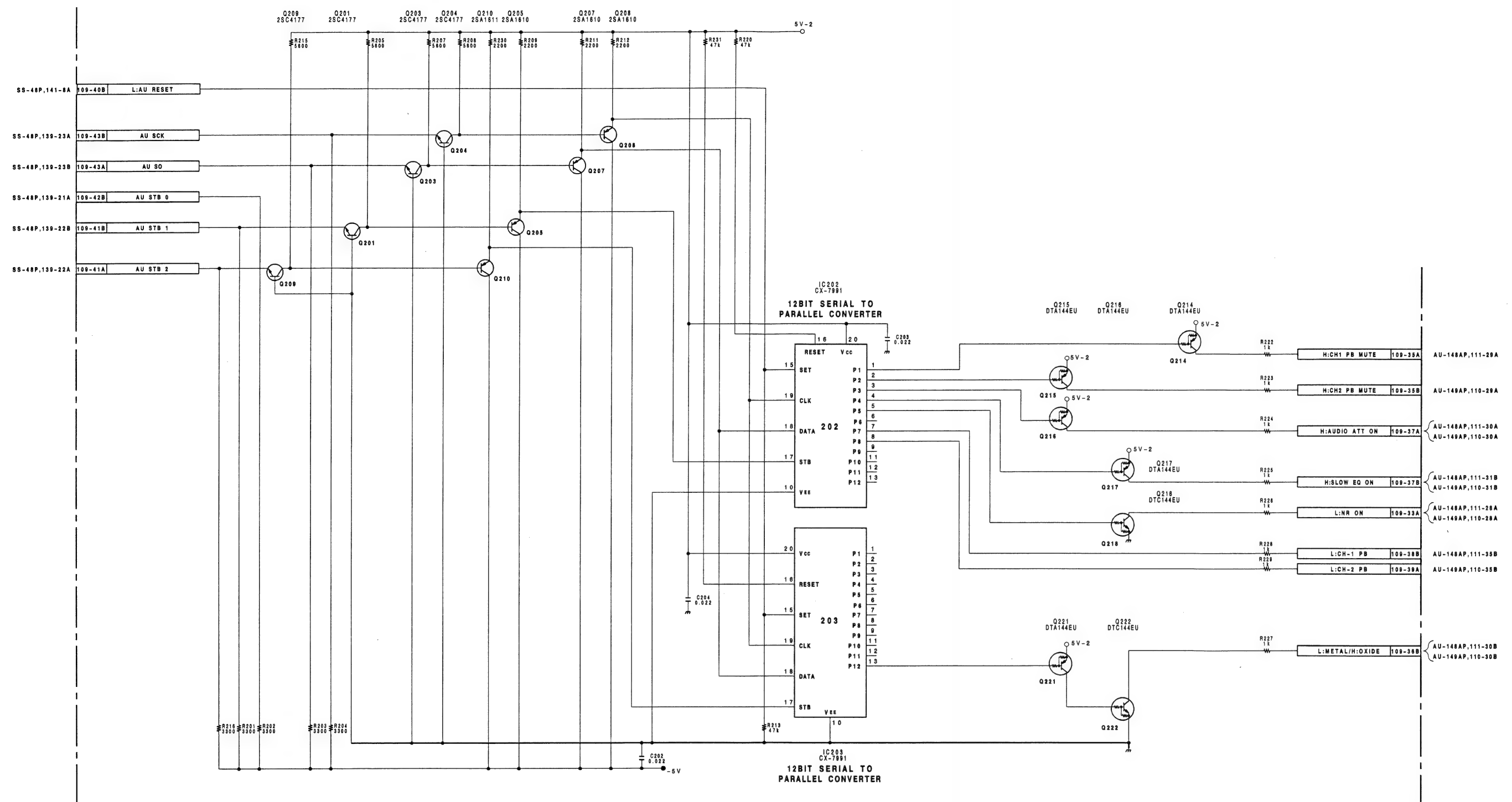
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Serial No.(EK);14586 and higher
Serial No.(UC);10011 and higher

AU-150A(2/2);MODE CONTROL



AU-150A BOARD (2/2)

BOARD NO.1-640-037-23
PVW-2600P (EK);#14586-
PVW-2600P (UC);#10011-

Serial No.(EK);11151 to 14585
Serial No.(UC);10001 to 10010

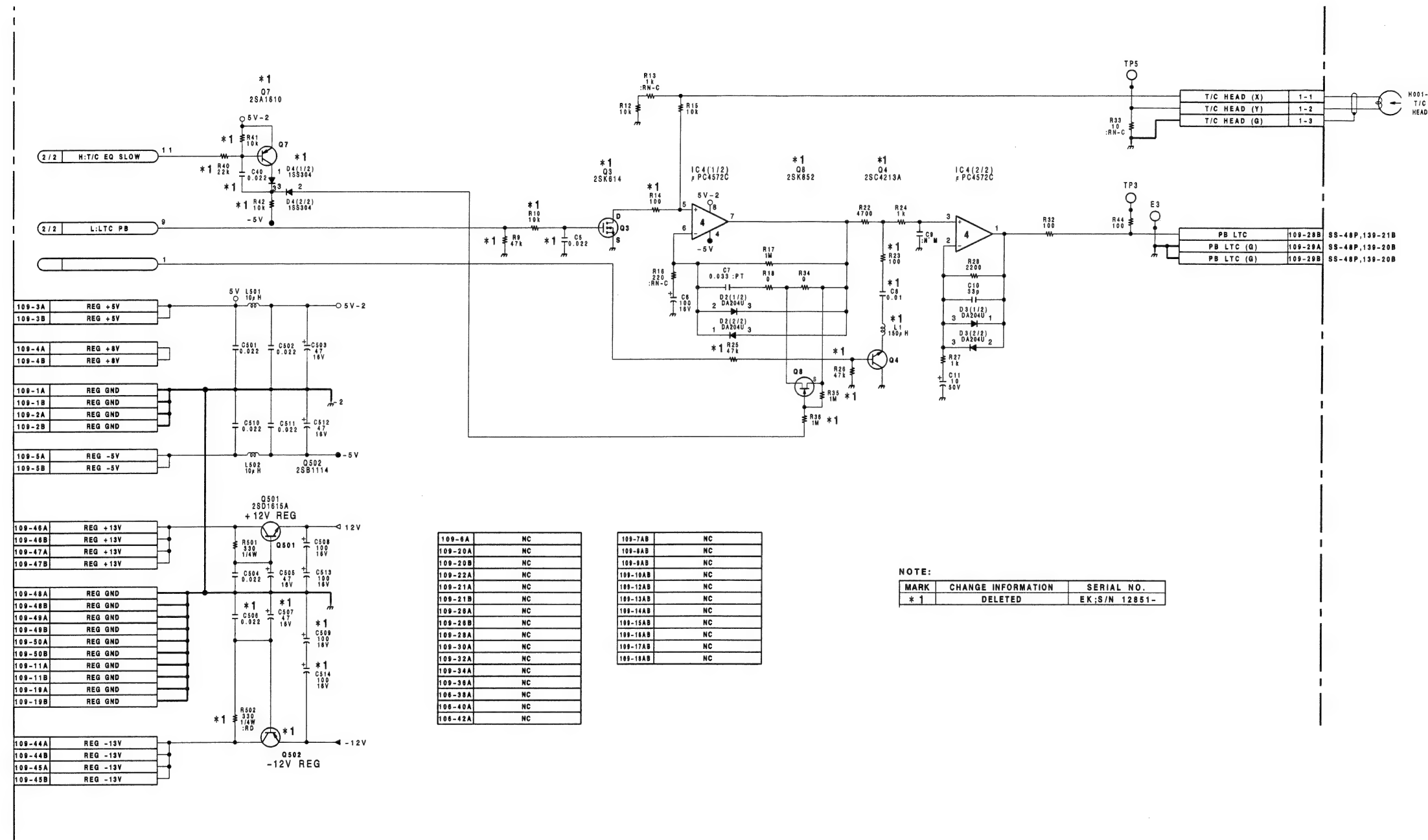
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AU-150A(1/2);LTC PB

AU-150

AU-150A(1-640-037-22)

TP2 A-3
TP3 B-3
TP5 B-2



SS-48P,141-

SS-48P,139-2

SS-48P,139-2

SS-48P,139-2

SS-48P,139-2

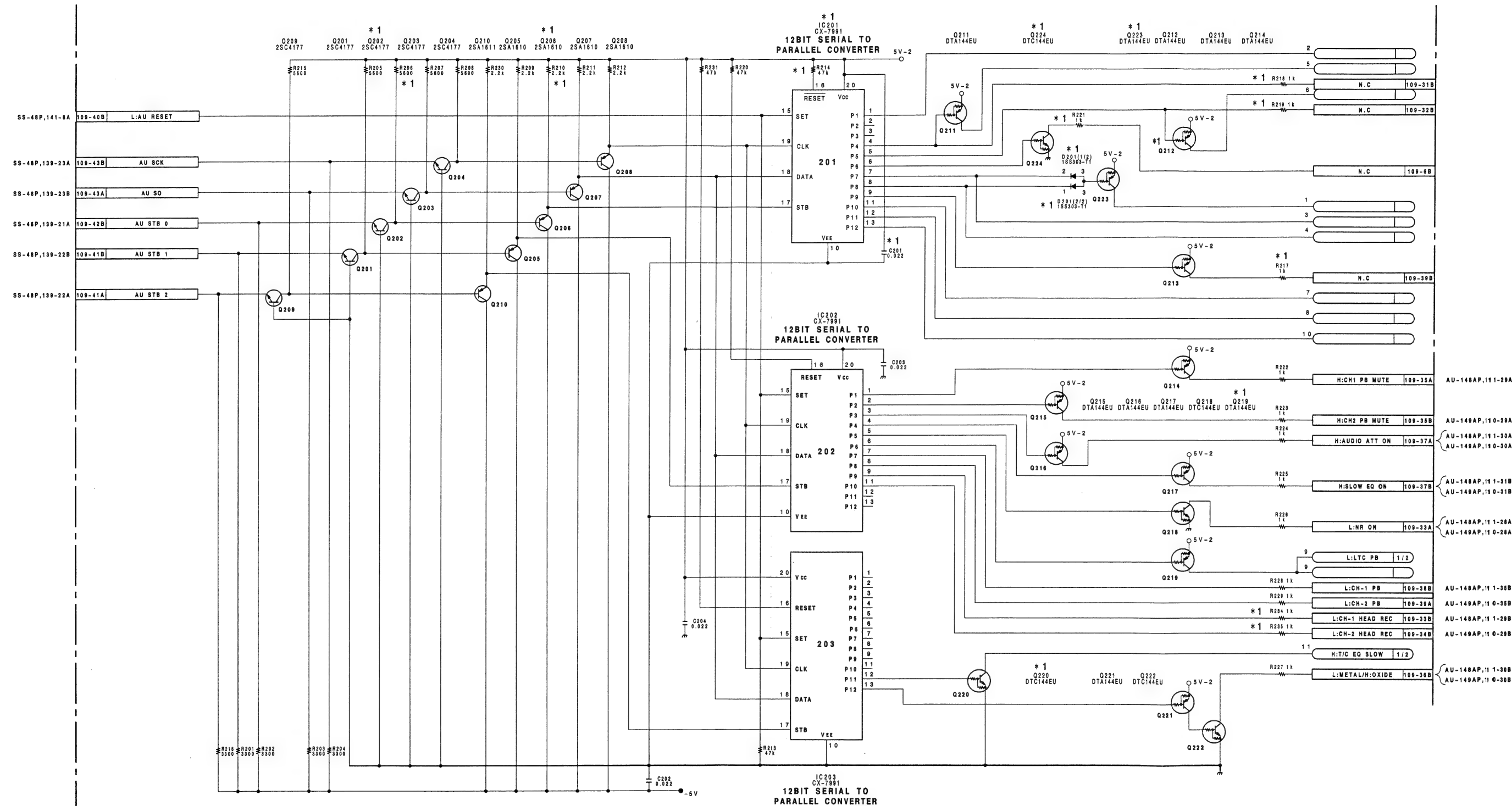
SS-48P,139-2

AU-150A BOARD (1/2)

BOARD NO.1-640-037-22
PVW-2600P(EK);#11151-14585
PVW-2600P(UC);#10001-10010

Serial No.(EK);11151 to 14585
Serial No.(UC);10001 to 10010

AU-150A(2/2);MODE CONTROL



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
* 1	DELETED	EK;S/N 12851-

AU-150A BOARD (2 / 2)

BOARD NO.1-640-037-22
PVW-2600P (EK);#11151-14585
PVW-2600P (UC);#10001-10010

Serial No.(EK);10001 to 11150

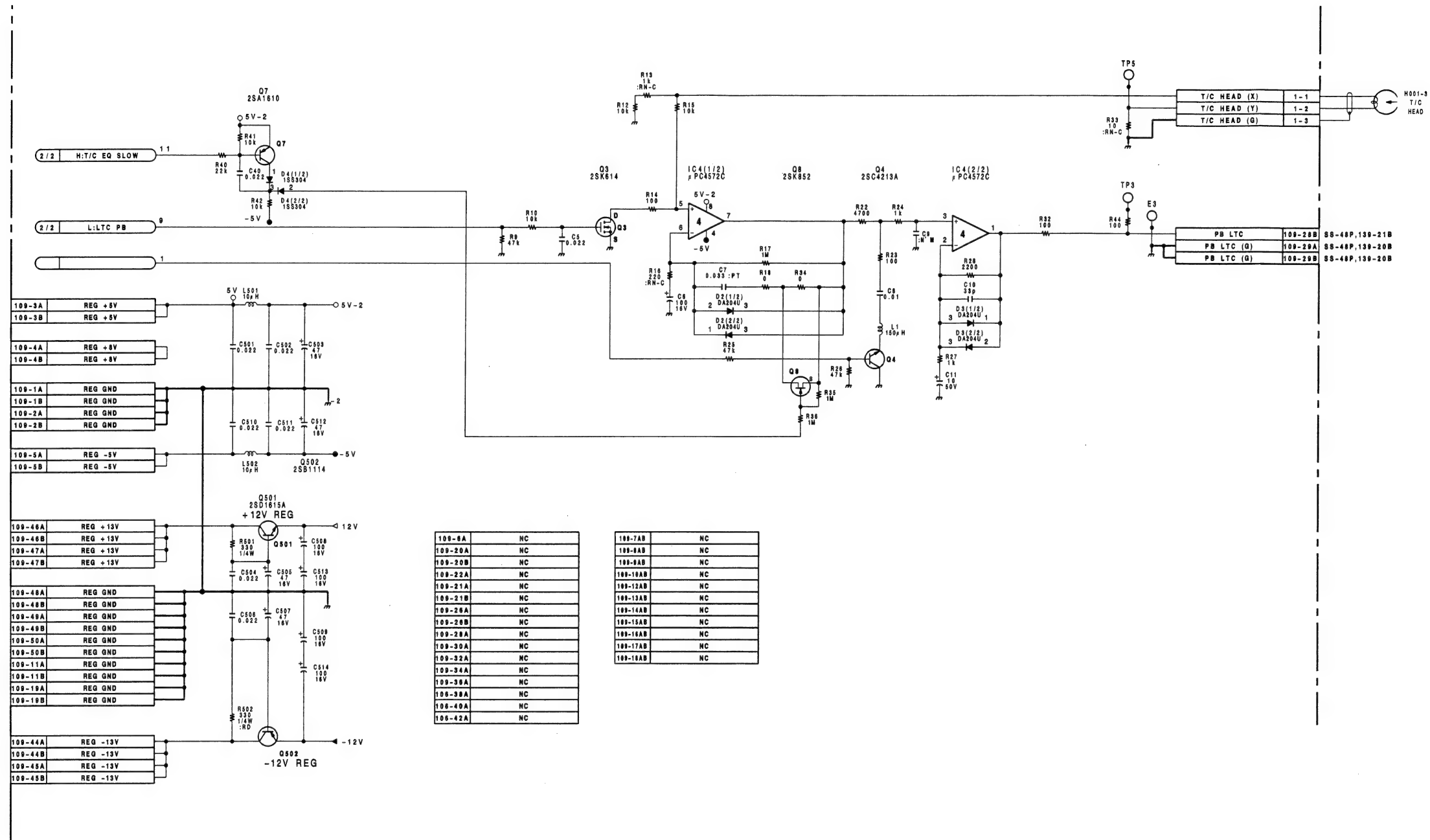
AU-150A(1/2);LTC PB

AU-150A(1-640-037-21)

TP3 B-3
TP5 B-2

Serial

AU-150A(2/2)



AU-150A BOARD (1/2)

BOARD NO.1-640-037-21
PVW-2600P (EK);#10001-11150

16-24(a)

A

B

C

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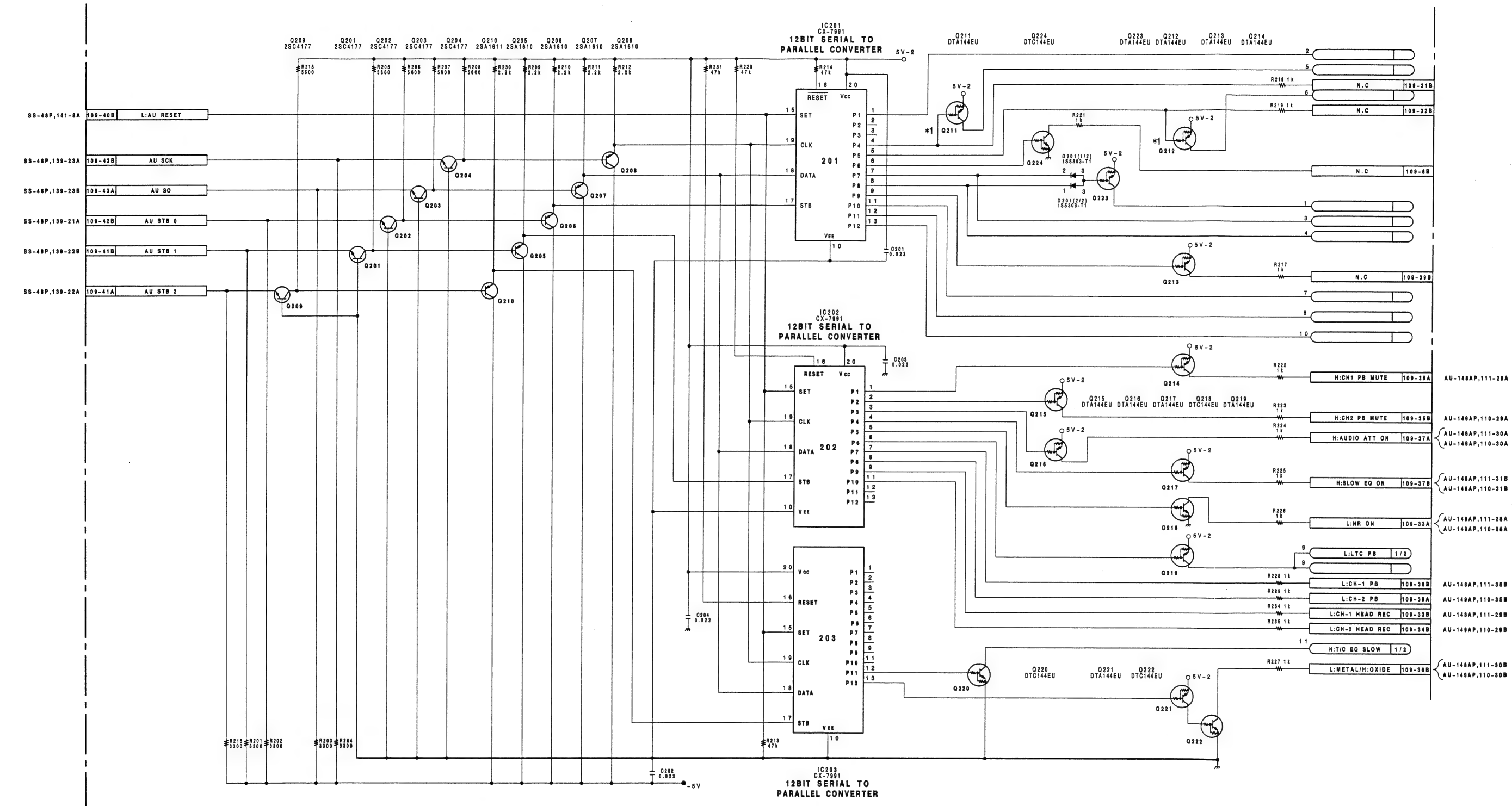
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Serial No.(EK);10001 to 11150

AU-150A(2/2);MODE CONTROL



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
* 1	Q211,Q212 DELETED	J ;S/N10581- UC;S/N10871- EK;S/N10851-

AU-150A BOARD (2 / 2)

BOARD NO.1-640-037-21
PVW-2600P (EK);#10001-11150

CP-167A CP-167A

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REF. LEVEL	SL101 SL201	SL102 SL202	SL103 SL203	SL104 SL204
-20dBm	CLOSE	OPEN	OPEN	OPEN
-3dBm	OPEN	CLOSE	OPEN	OPEN
0dBm	OPEN	OPEN	CLOSE	OPEN
+4dBm	OPEN	OPEN	OPEN	CLOSE
+8dBm	OPEN	OPEN	OPEN	OPEN

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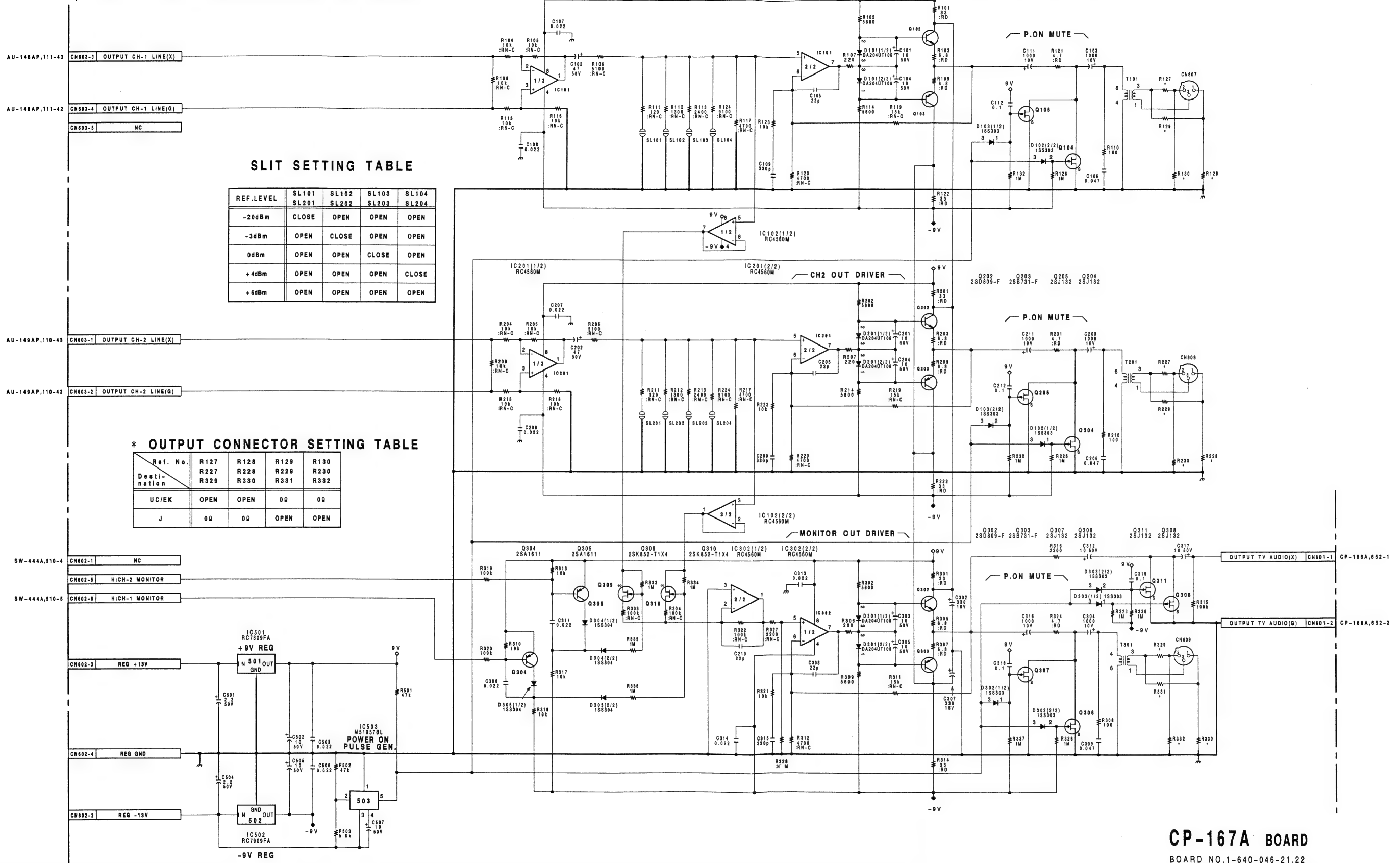
!

BOARD NO.1-640-046-23
PVW-2600P (EK);#14586-
PVW-2600P (UC);#10011-

16-25(b)

Serial No.(EK);10001 to 14585
Serial No.(UC);10001 to 10010

CP-167A;AUDIO OUTPUT CONNECTOR,LINE OUT DRIVER

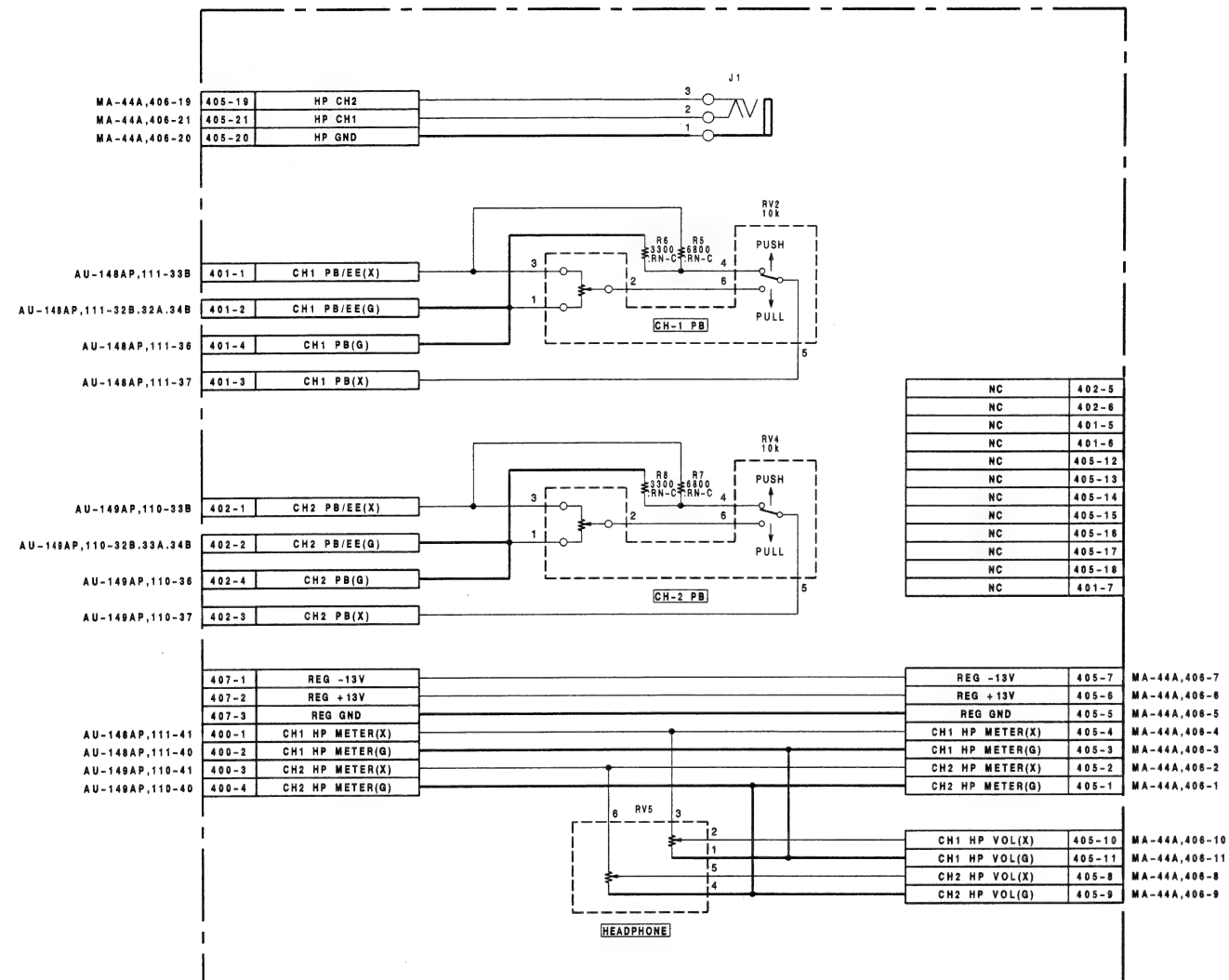


Serial No.(EK);10651 and higher
Serial No.(UC);10001 and higher

VR-116A,MA-44A VR-116A,MA-44A

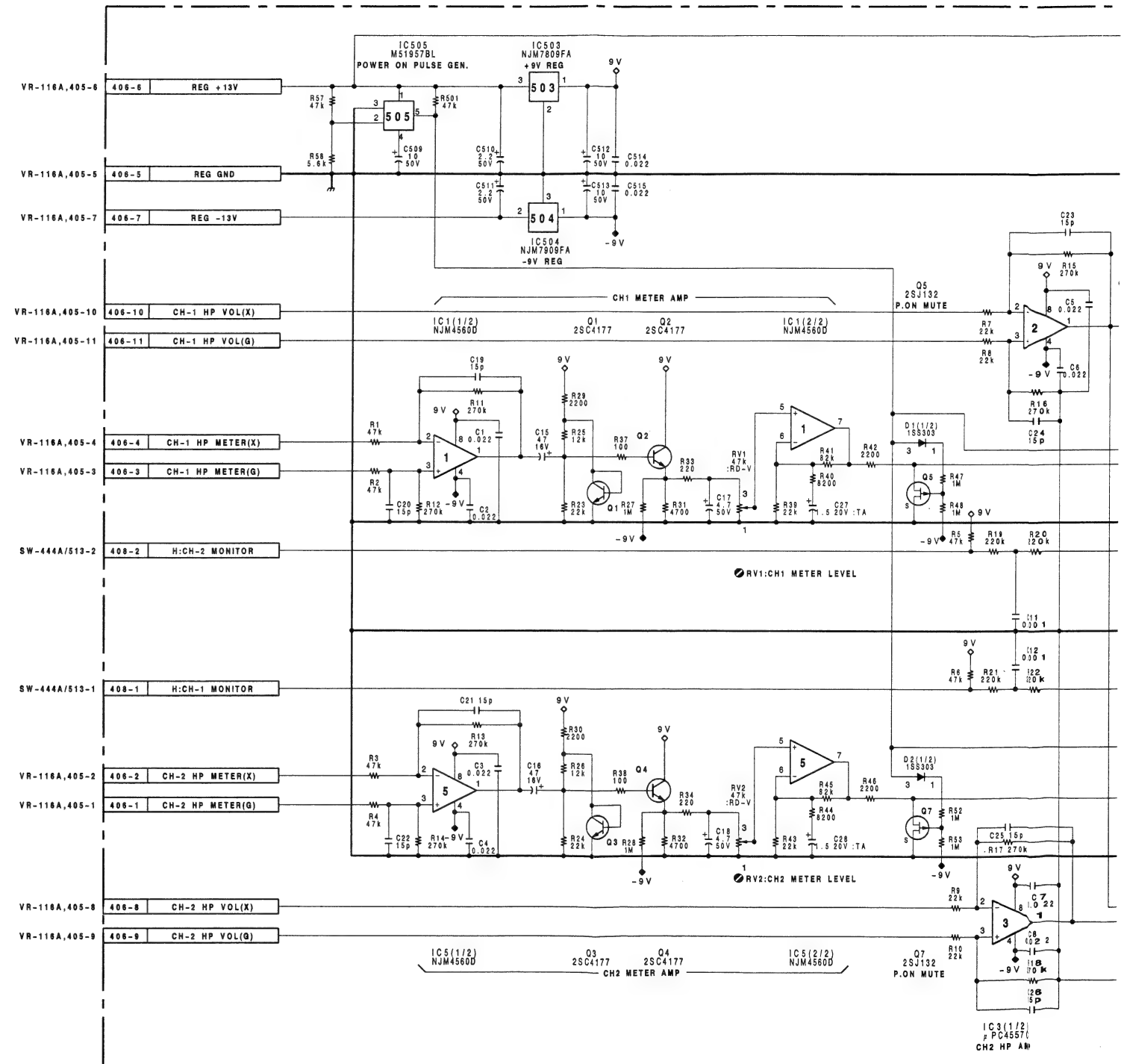
VR-116A;AUDIO PB LEVEL CONTROL,HEADPHONE VOLUME CONTROL

MA-44A;AUDIO METER DRIVER,HEADPHONE AMPLIFIER



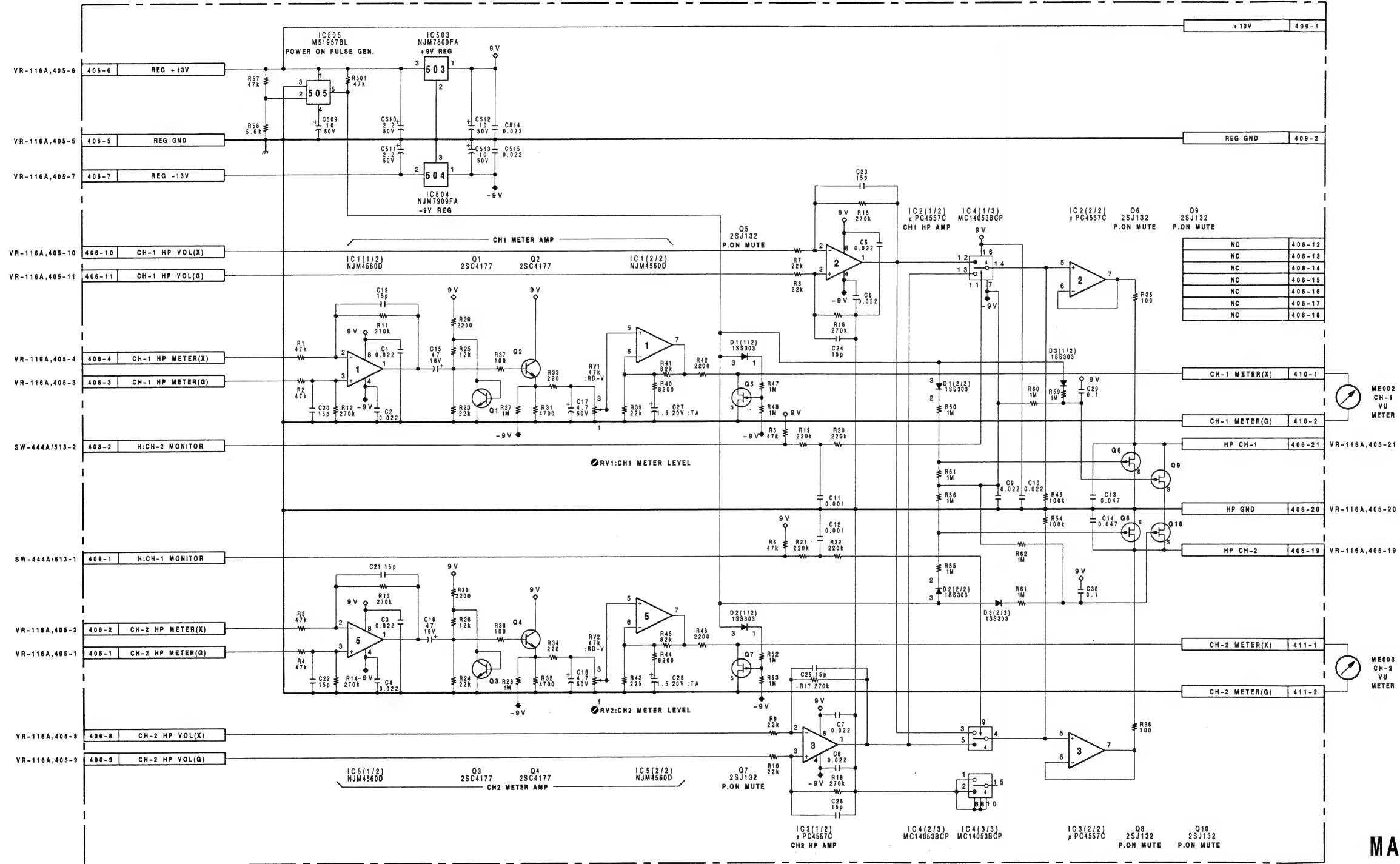
VR-116A BOARD

BOARD NO.1-640-039-21
PVW-2600P (EK);#10001-
PVW-2600P (UC);#10001-



MA-44A;AUDIO METER DRIVER,HEADPHONE AMPLIFIER

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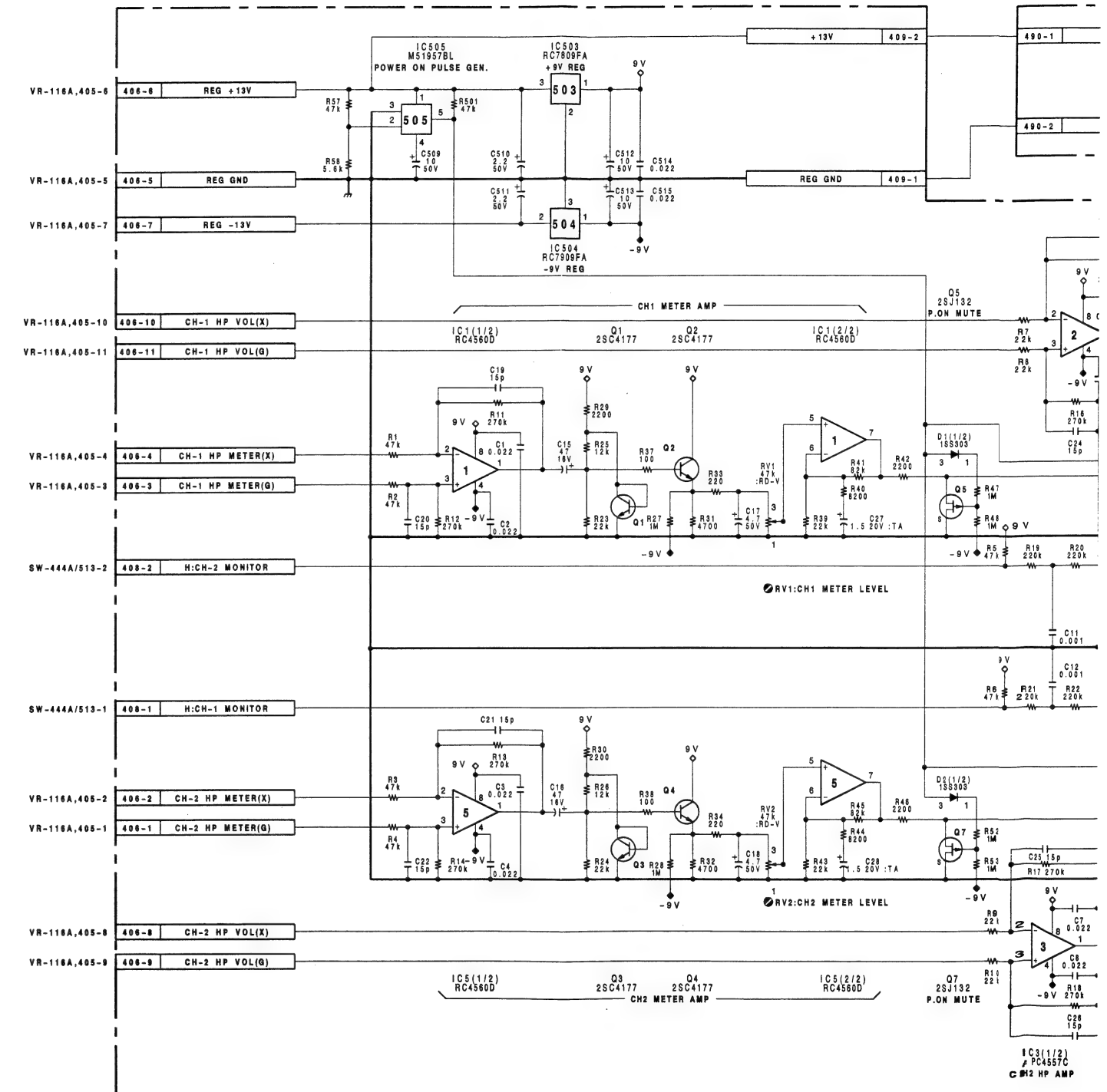
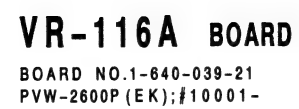


MA-44A BOARD

BOARD NO.1-640-041-22
PVW-2600P (EK);#10651-
PVW-2600P (UC);#10001-

MA-44A;AUDIO METER DRIVER,HEADPHONE AMPLIFIER
DP-138A;AUDIO LEVEL METER BACK LIGHT

MA-44A;AUDIO METER DRIVER,HEADPHONE AMPLIFIER
DP-138A;AUDIO LEVEL METER BACK LIGHT



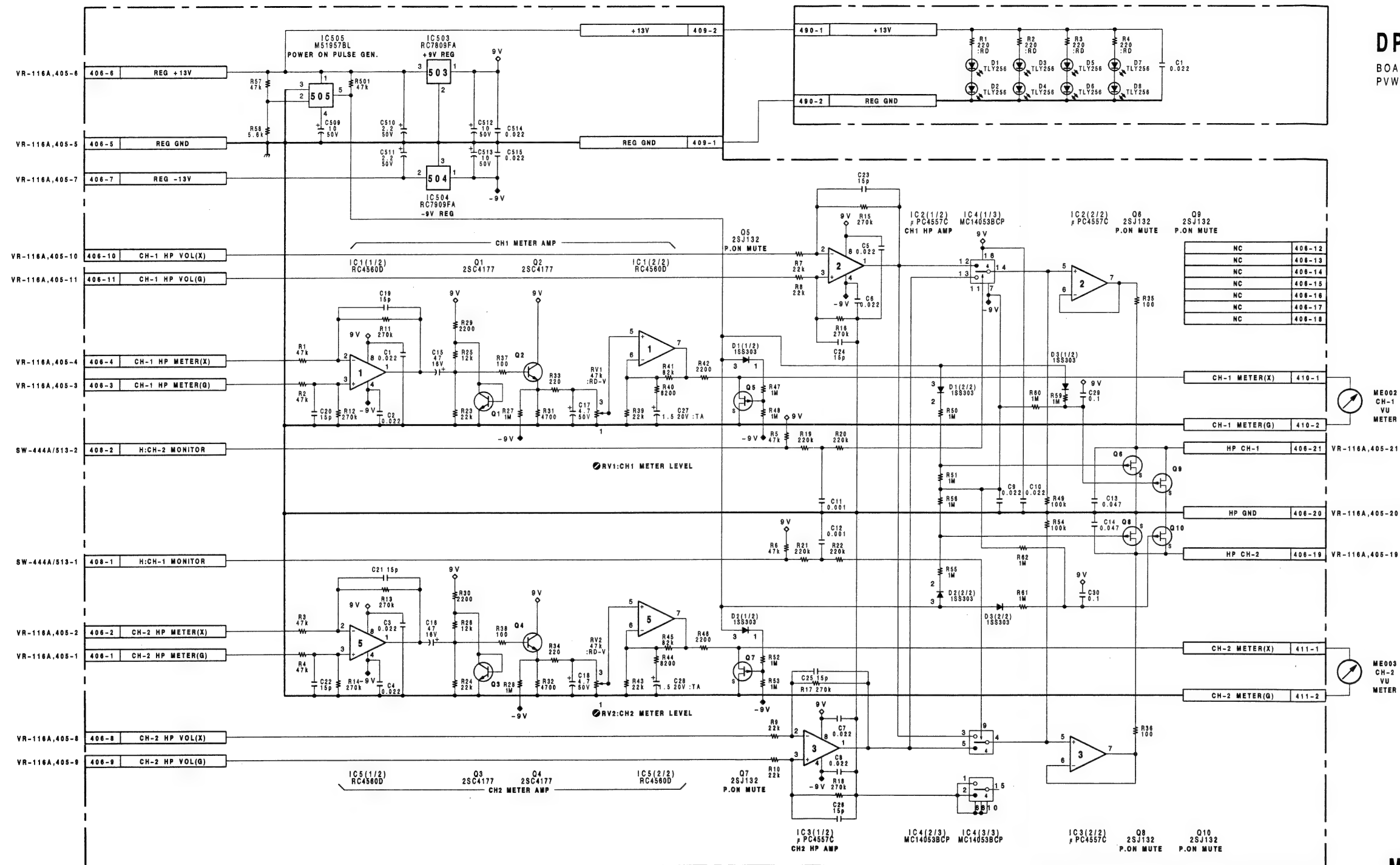
MA-44A;AUDIO METER DRIVER,HEADPHONE AMPLIFIER
DP-138A;AUDIO LEVEL METER BACK LIGHT

DP-138A BOARD

BOARD NO.1-640-040-21
PVW-2600P (EK);#10001-

MA-44A BOARD

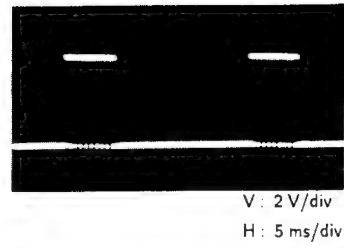
BOARD NO.1-640-041-21
PVW-2600P (EK);#10001-10650



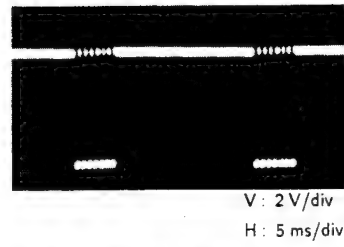
SS-48P(1-640-029-13)

TP6	R-2
TP401	J-1
TP408	J-1
TP708	C-1
TP717	E-1
TP801	F-7
TP802	G-7
TP806	D-1

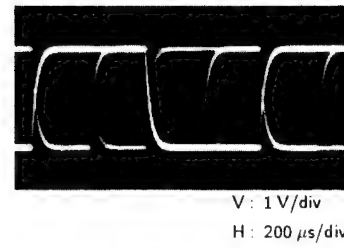
① TP104
EE/PB



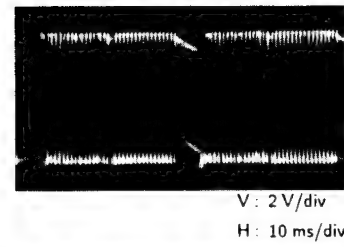
② TP105
EE/PB



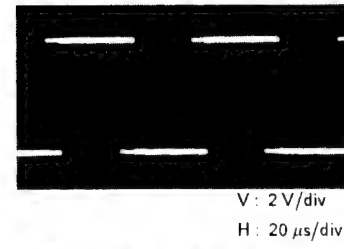
③ TP404
EE/PB



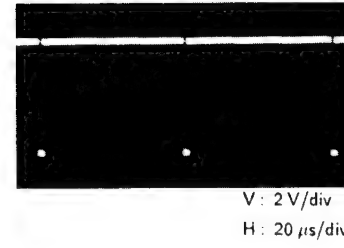
④ TP408
PB



⑤ TP501
EE/PB



⑥ TP502
EE/PB



⑦ TP503
EE/PB



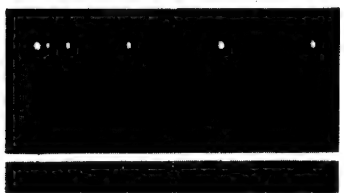
V: 2 V/div
H: 10 ms/div

⑧ TP504
EE/PB



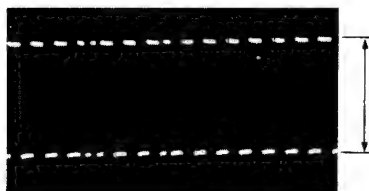
V: 2 V/div
H: 20 μs/div

⑨ TP507
EE/PB



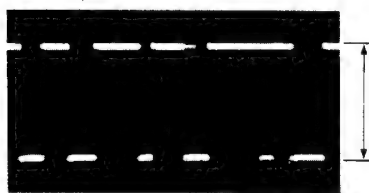
V: 2 V/div
H: 2 ms/div

⑩ TP509
PB/EE



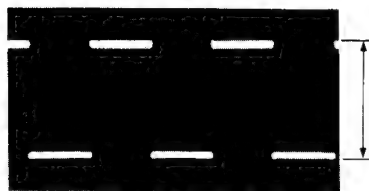
H: 2 ms/div

⑪ TP606
PB



H: 2 ms/div

⑫ TP607
EE/PB



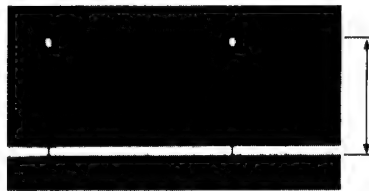
13 ms

⑬ TP705
EE/PB



3.2 ms

⑭ TP706
EE/PB



40 ms

⑮ TP713
PB



3.2 ms

⑯ TP715
PB



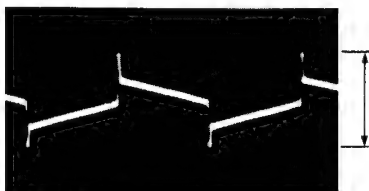
6.4 ms

⑰ TP717
EE/PB



40 ms

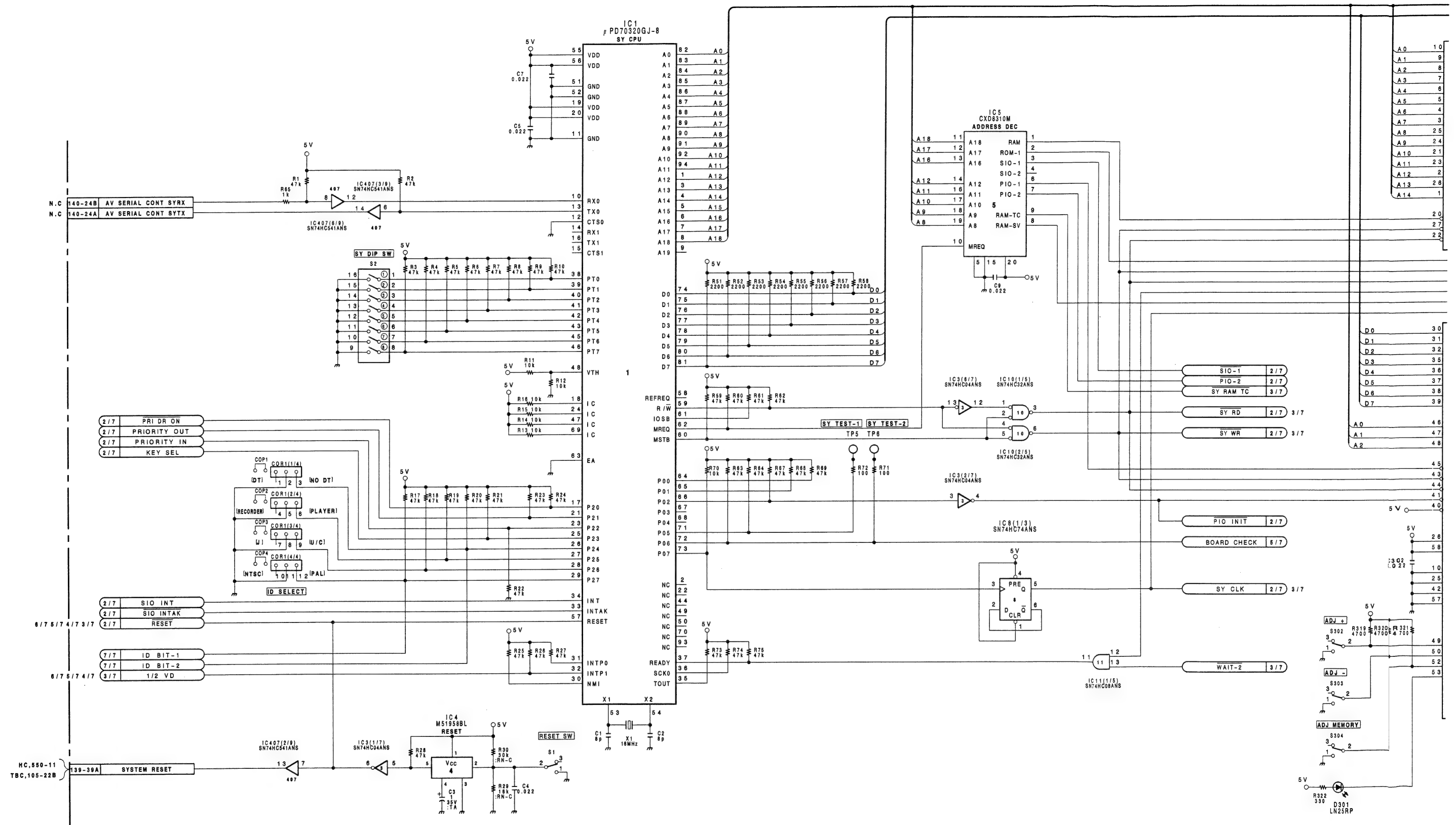
⑱ TP806
PB

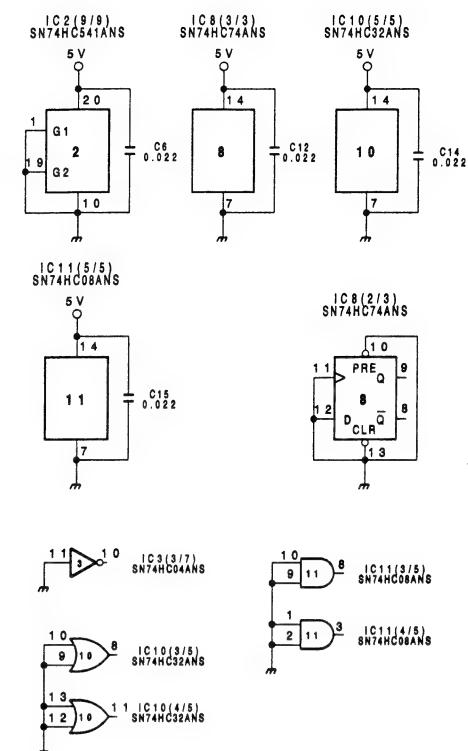


40 ms

SS-48P(1/7) SS-48P(1/7)

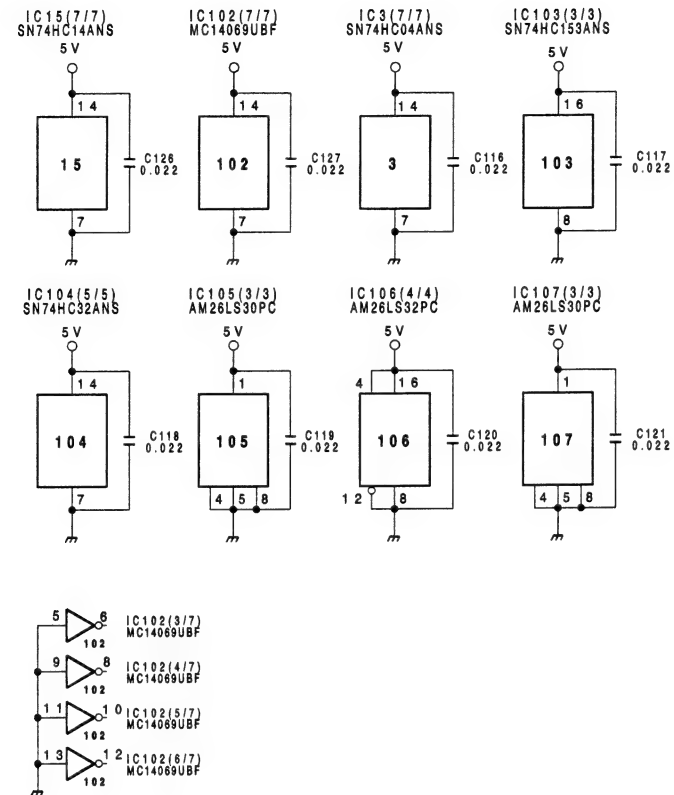
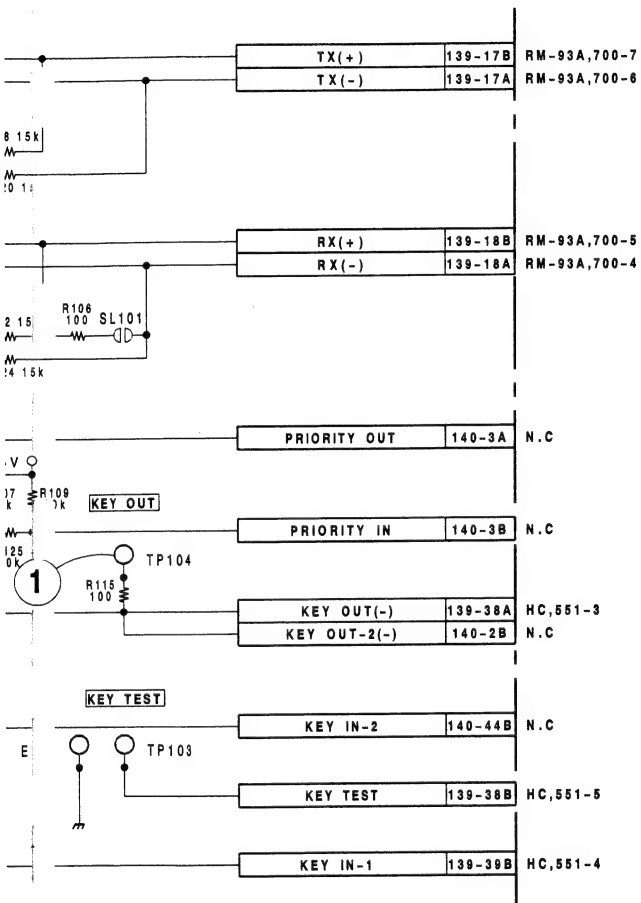
16-29(b)





BOARD NO.1-640-029-13
PVW-2600P (EK);#13101-
PVW-2600P (UC);#10001-

SS-48P(2/7) SS-48P(2/7)



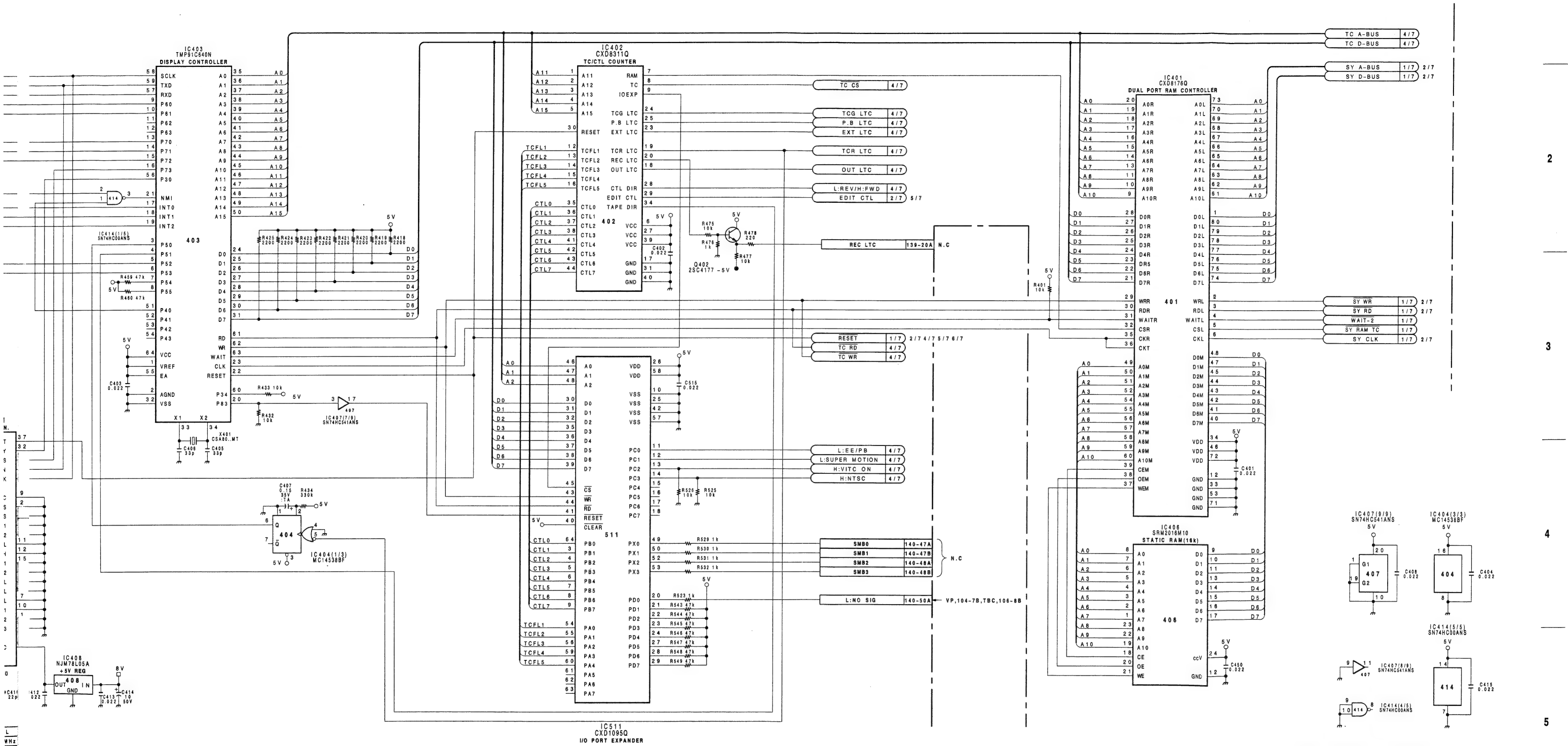
SS-48P BOARD (2/7)

BOARD NO.1-640-029-13
PVW-2600P (EK);#13101-
PVW-2600P (UC);#10001-

SS-48P (3/7) SS-48P (3/7)

16-31(b)



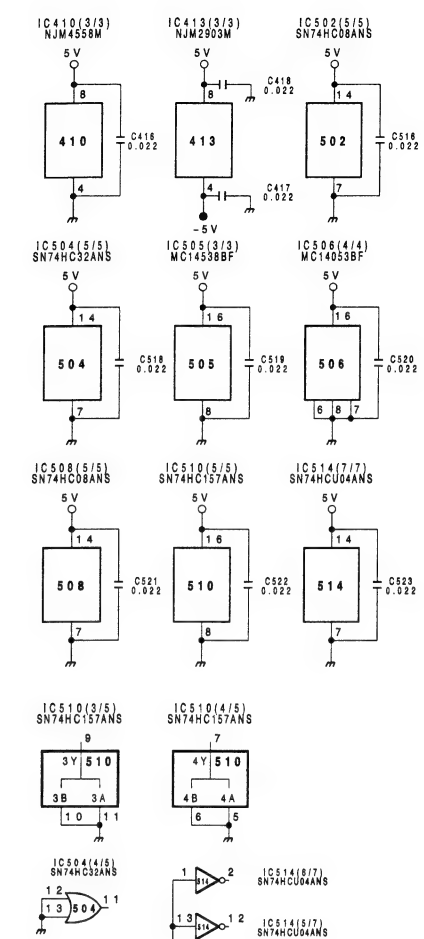
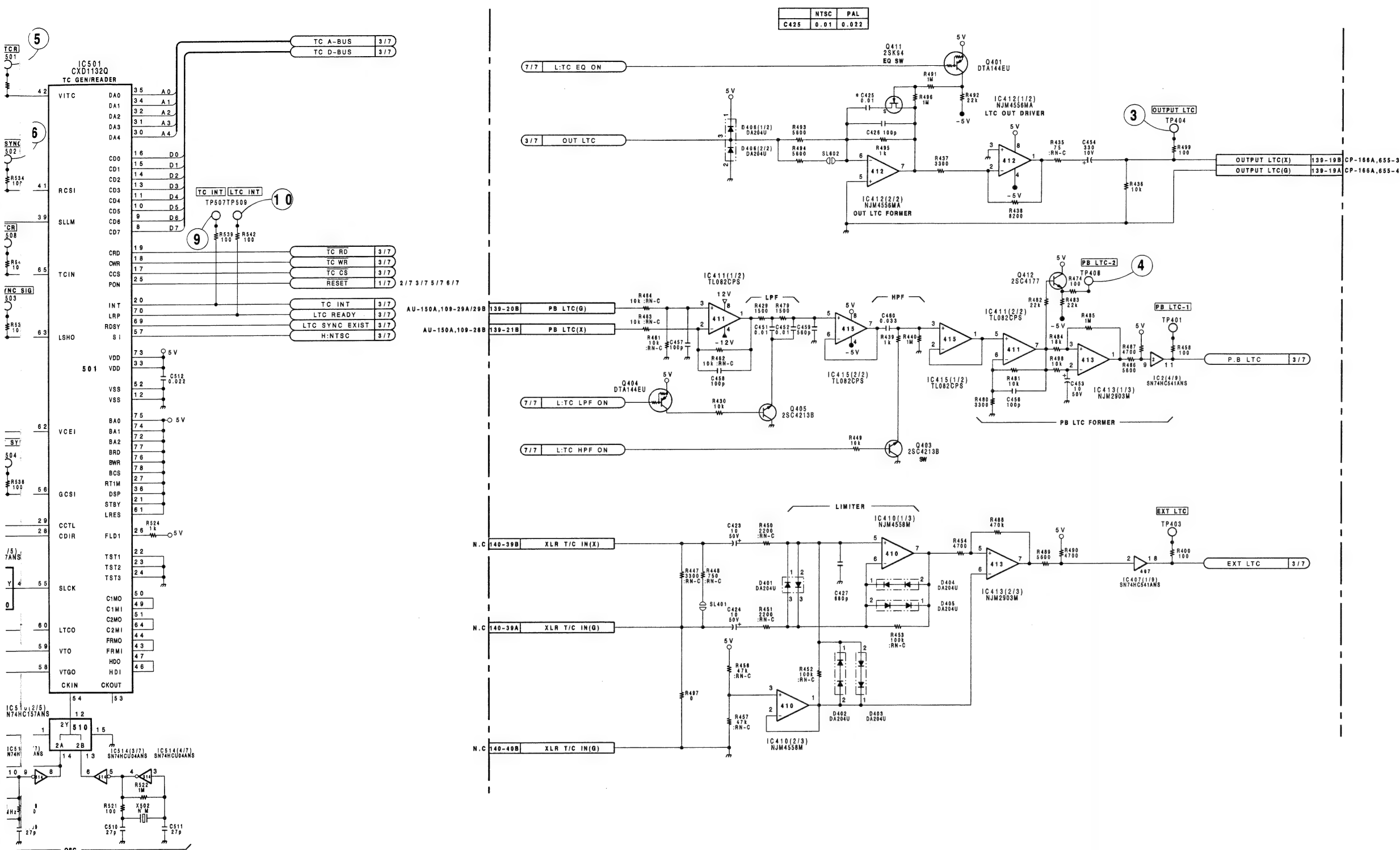


SS-48P BOARD (3/7)

BOARD NO.1-640-029-13
PVW-2600P (EK);#13101-
PVW-2600P (UC);#10001-

E F G H I J K L

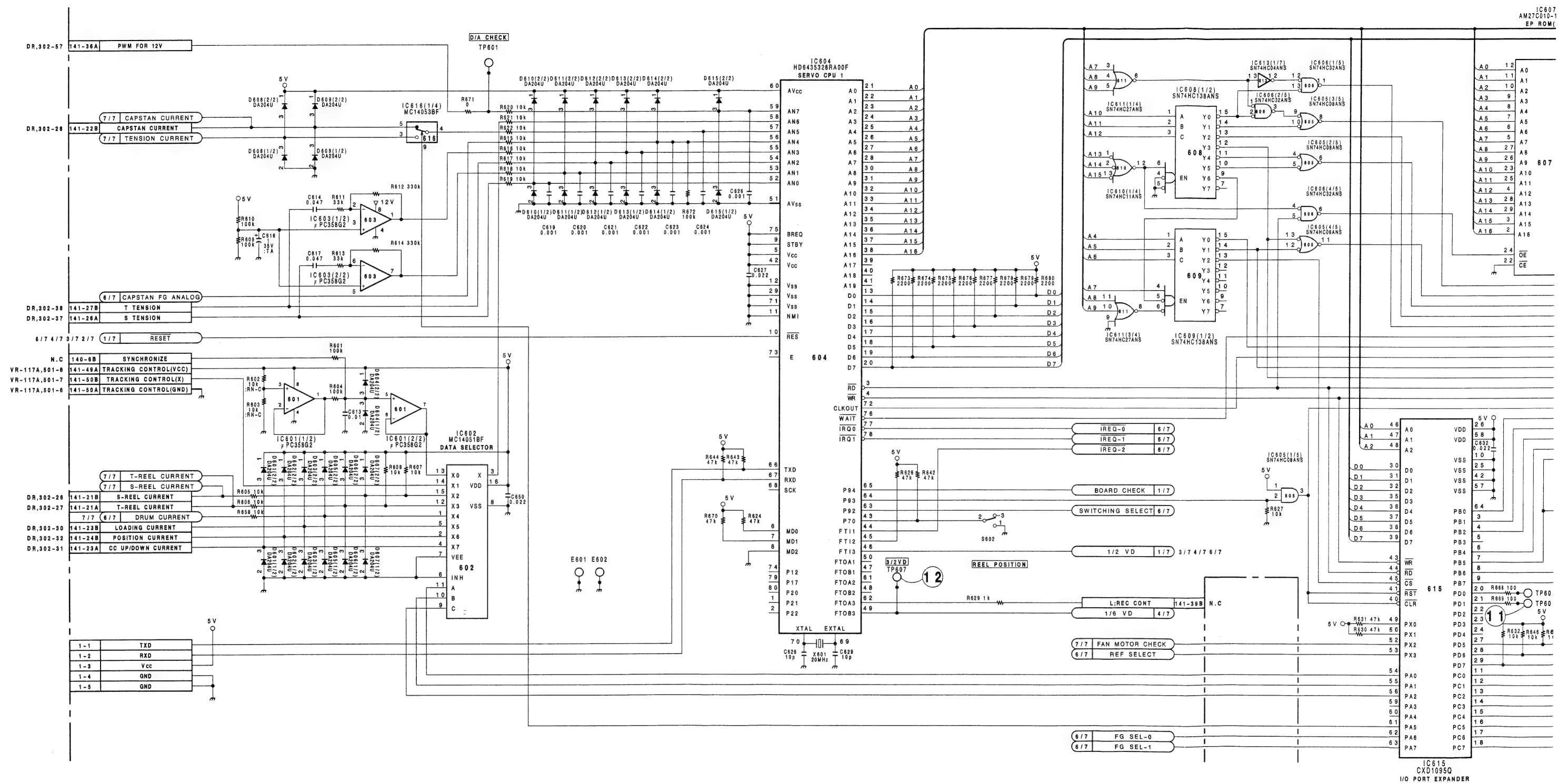
16-32(b)

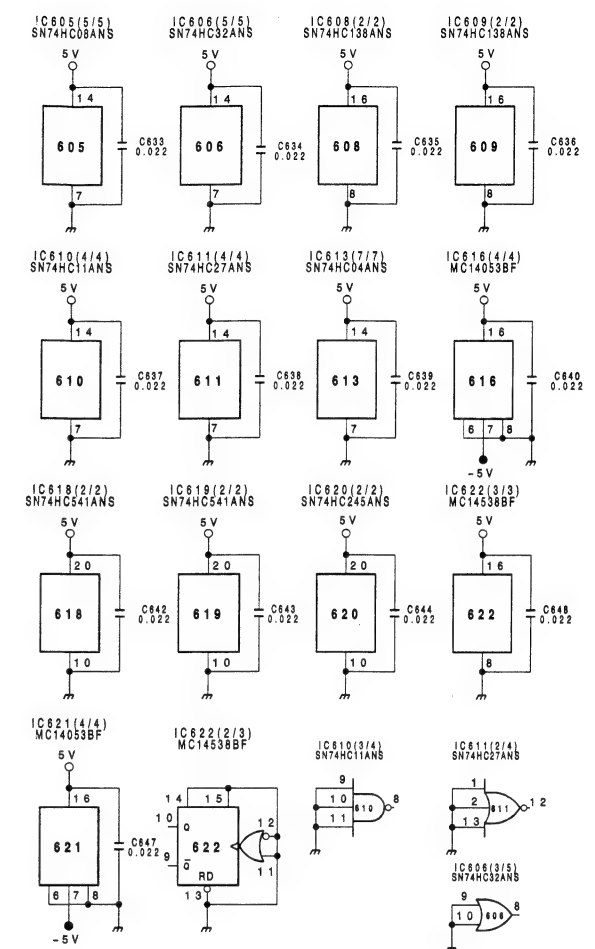


SS-48P BOARD (4/7)

BOARD NO.1-640-029-13
PVW-2600P (EK);#13101-
PVW-2600P (UC);#10001-

SS-48P(5/7);SERVO SYSTEM MAIN



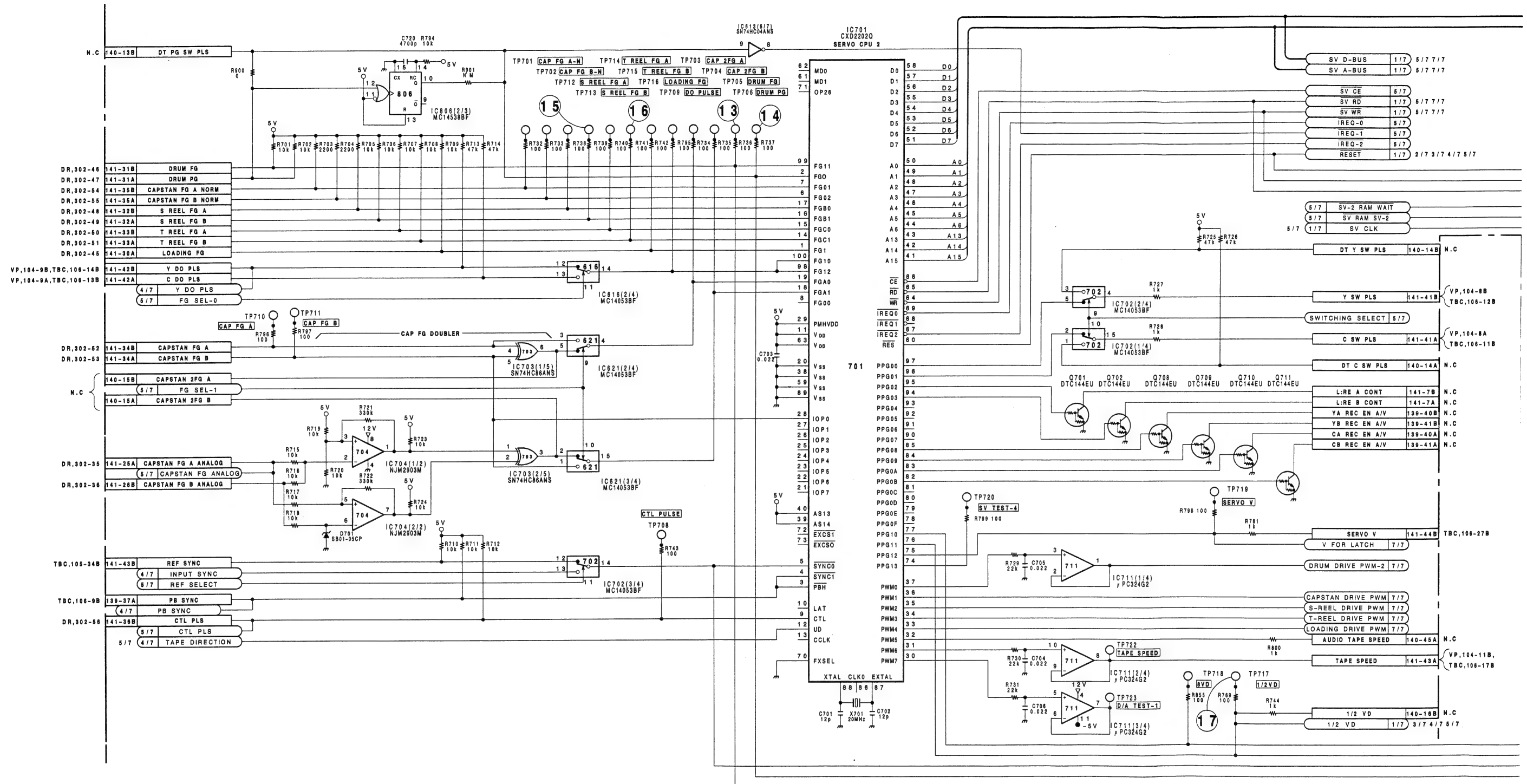


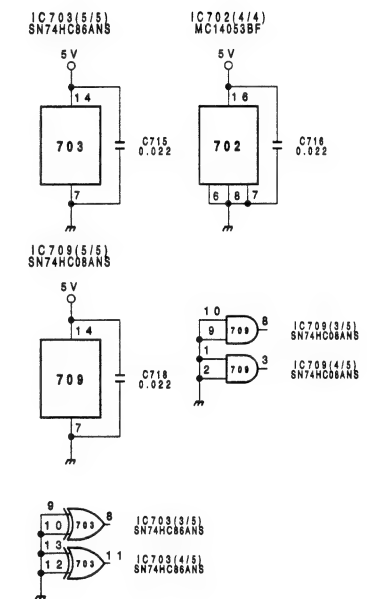
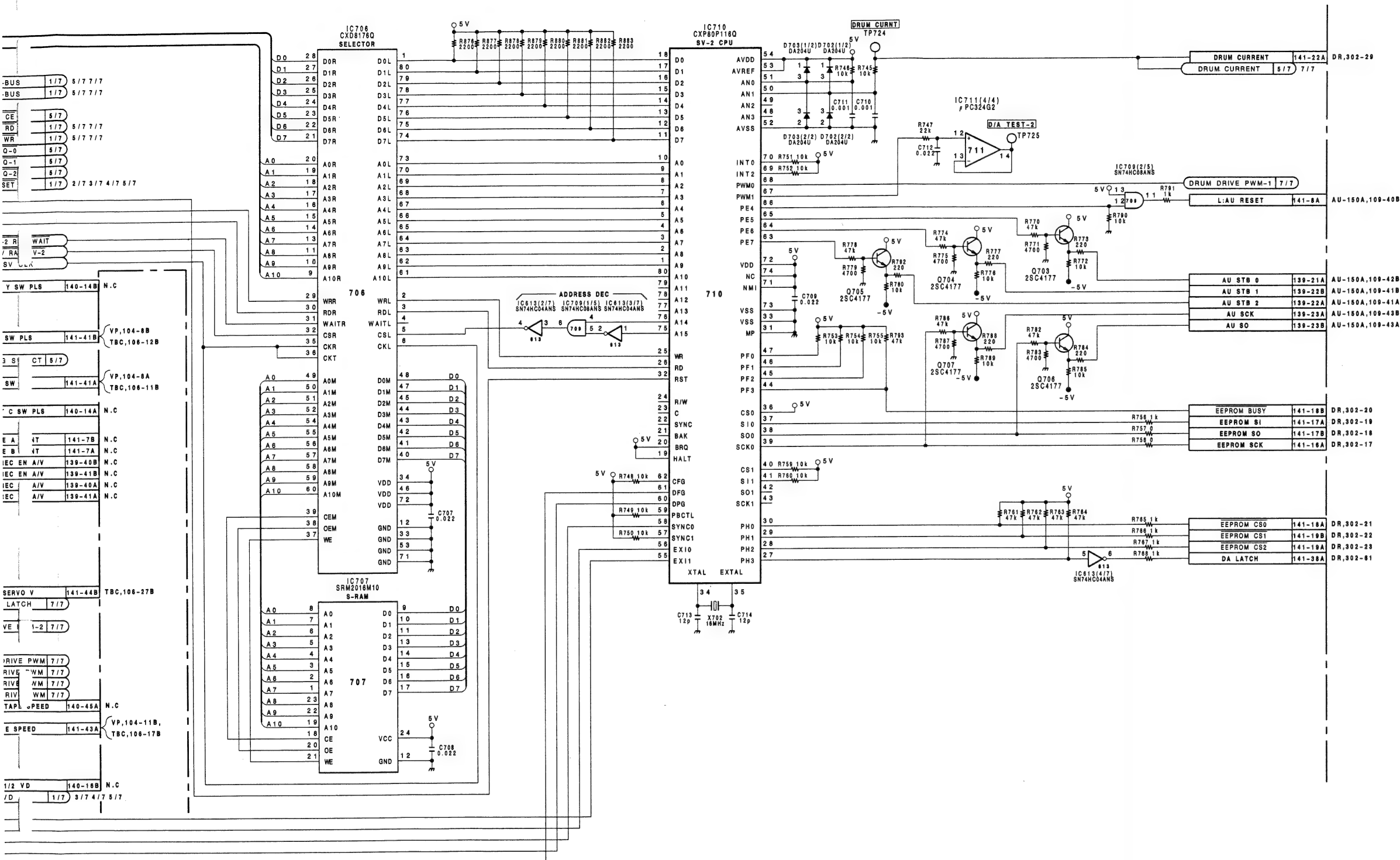
16-33(b)

Serial No.(EK);13101 and higher
Serial No.(UC);10001 and higher

SS-48P(6/7) SS-48P(6/7)

SS-48P(6/7);SERVO SYSTEM MAIN



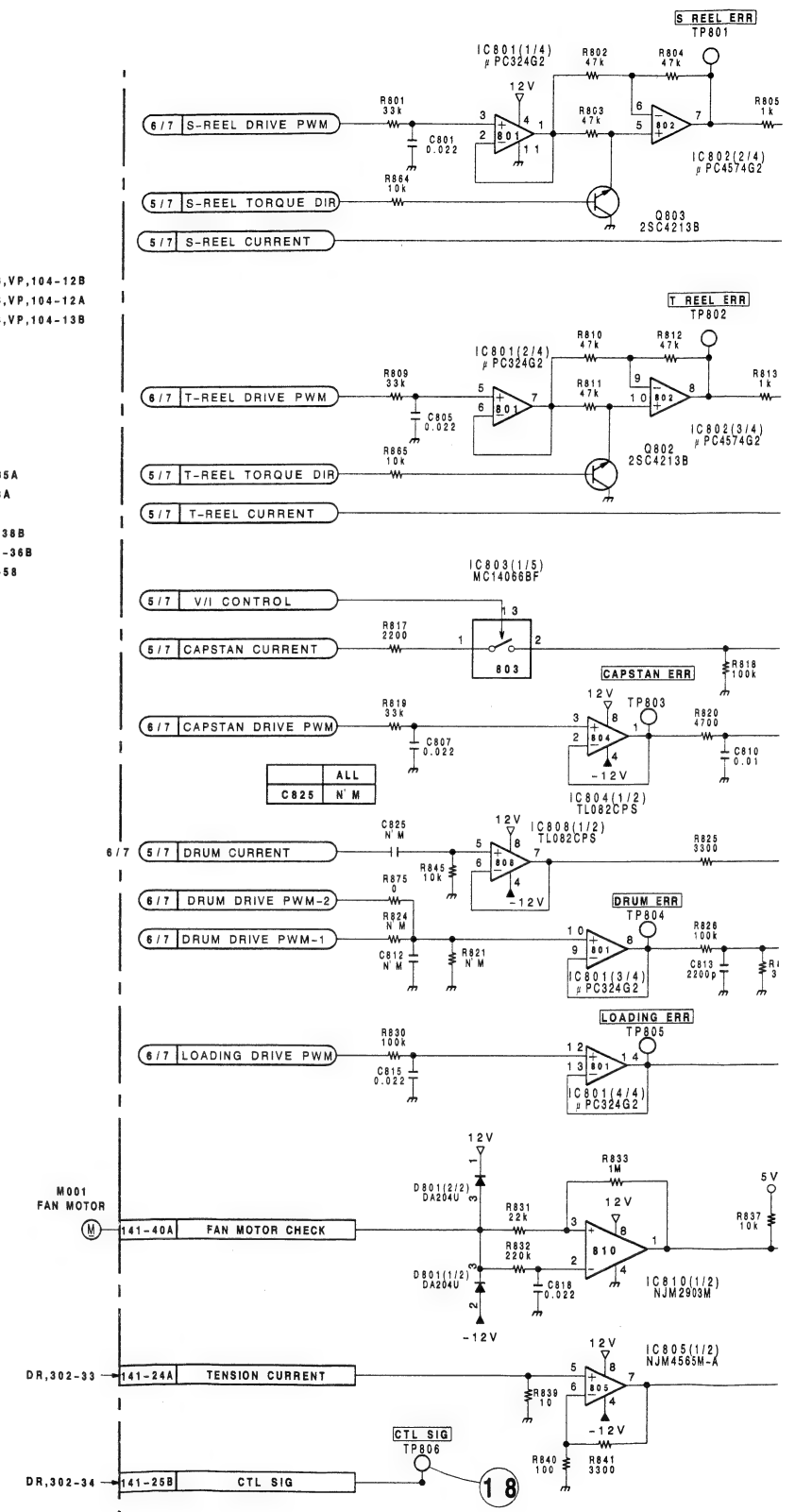


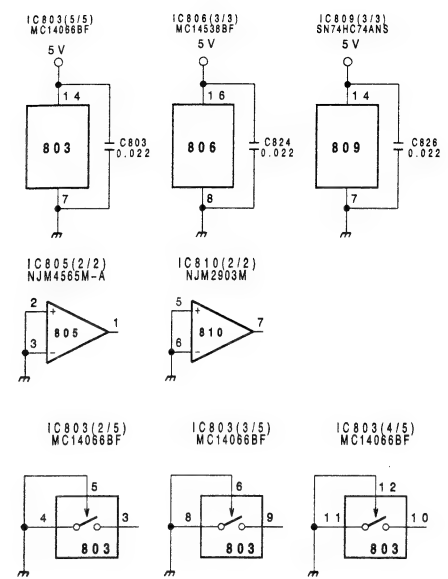
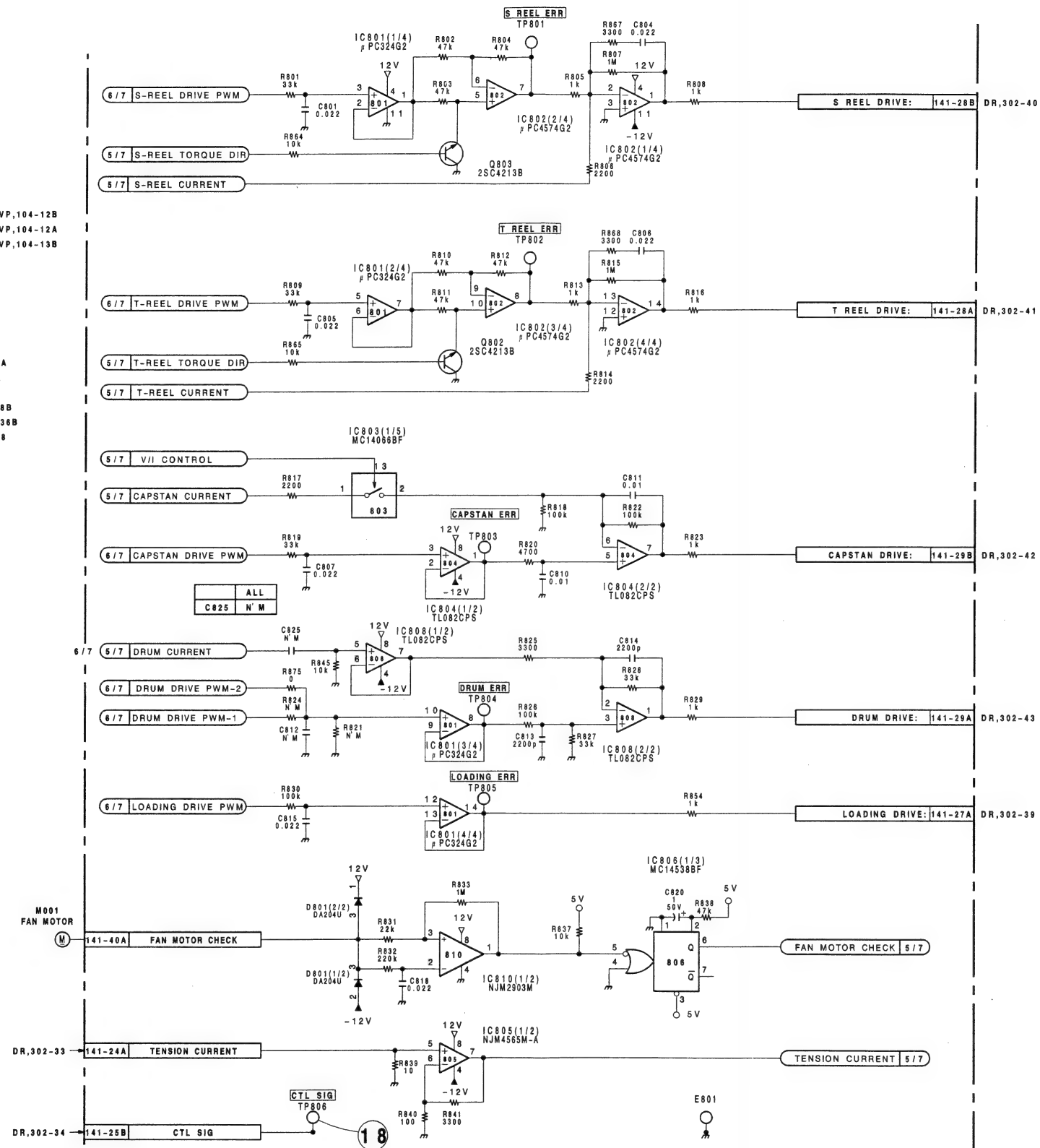
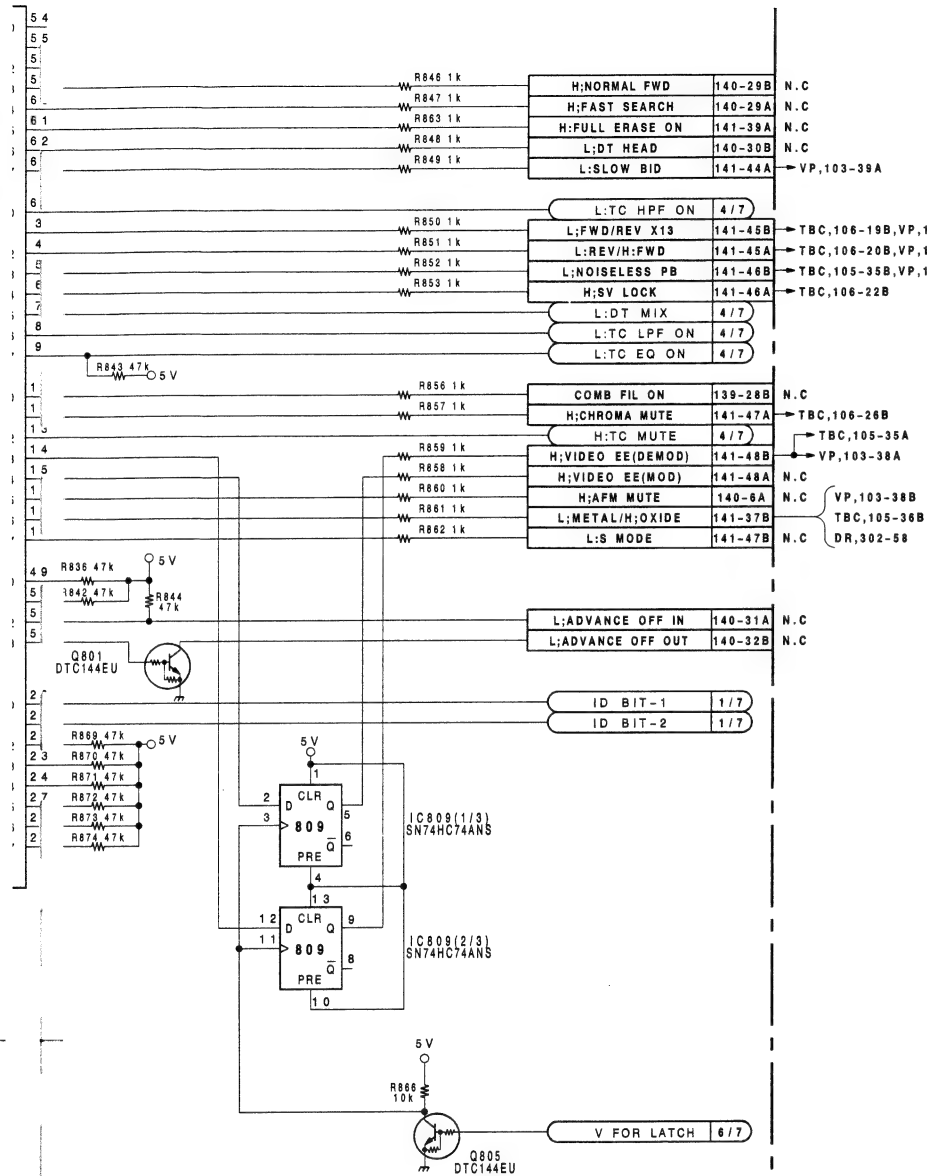
SS-48P BOARD (6/7)

BOARD NO.1-640-029-13
PVW-2600P (EK);#13101-
PVW-2600P (UC);#10001-

SS-48P(7/7);MOTOR PRE DRIVER,MODE CONTROL

16-35(b)



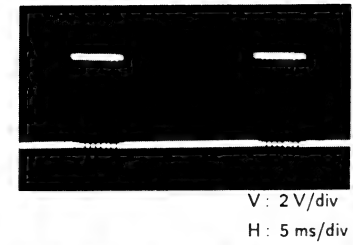
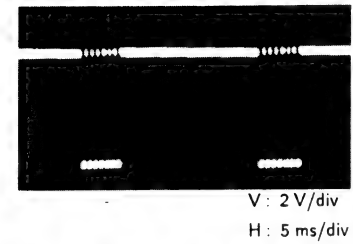
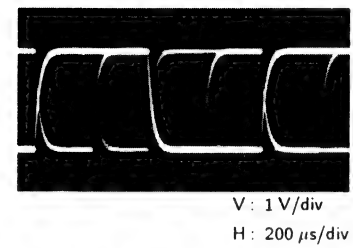
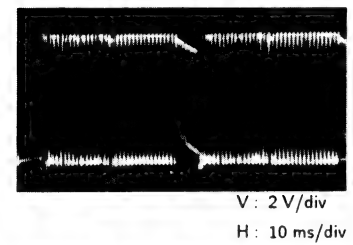
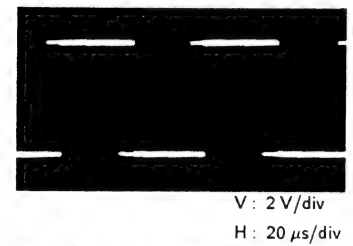
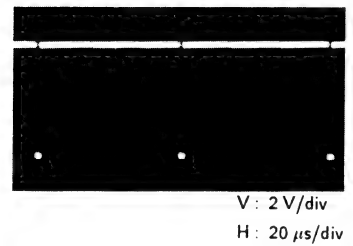
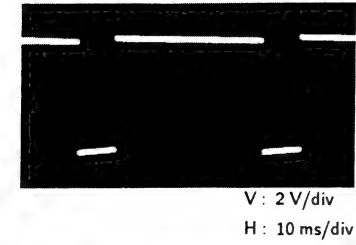
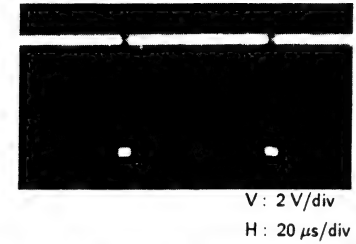
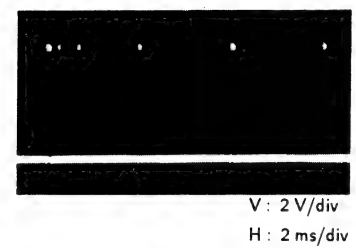
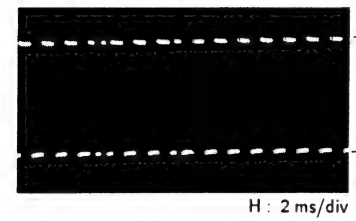
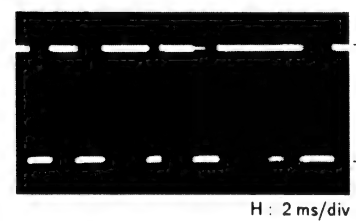
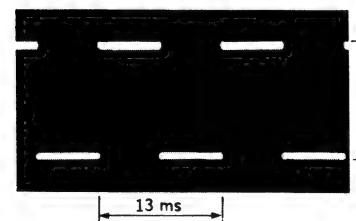
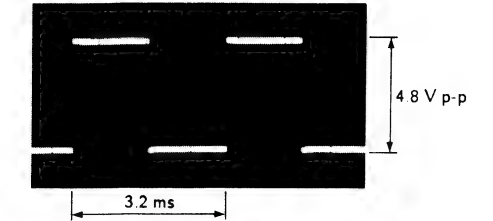
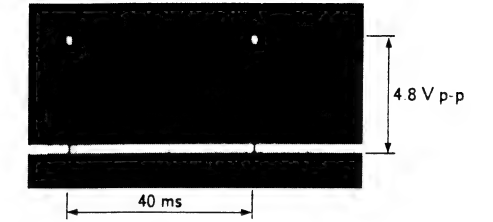
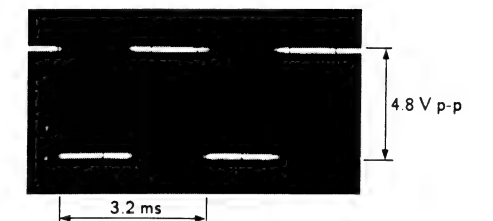
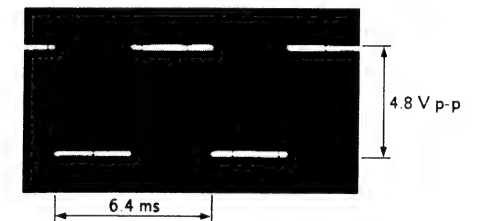
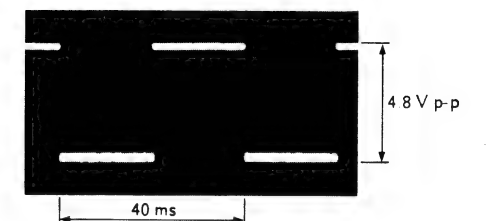
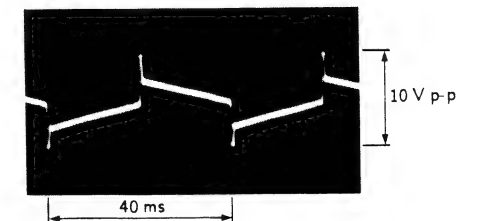


SS-48P BOARD (7/7)

BOARD NO.1-640-029-13
PVW-2600P (EK):#13101-
PVW-2600P (UC):#10001-

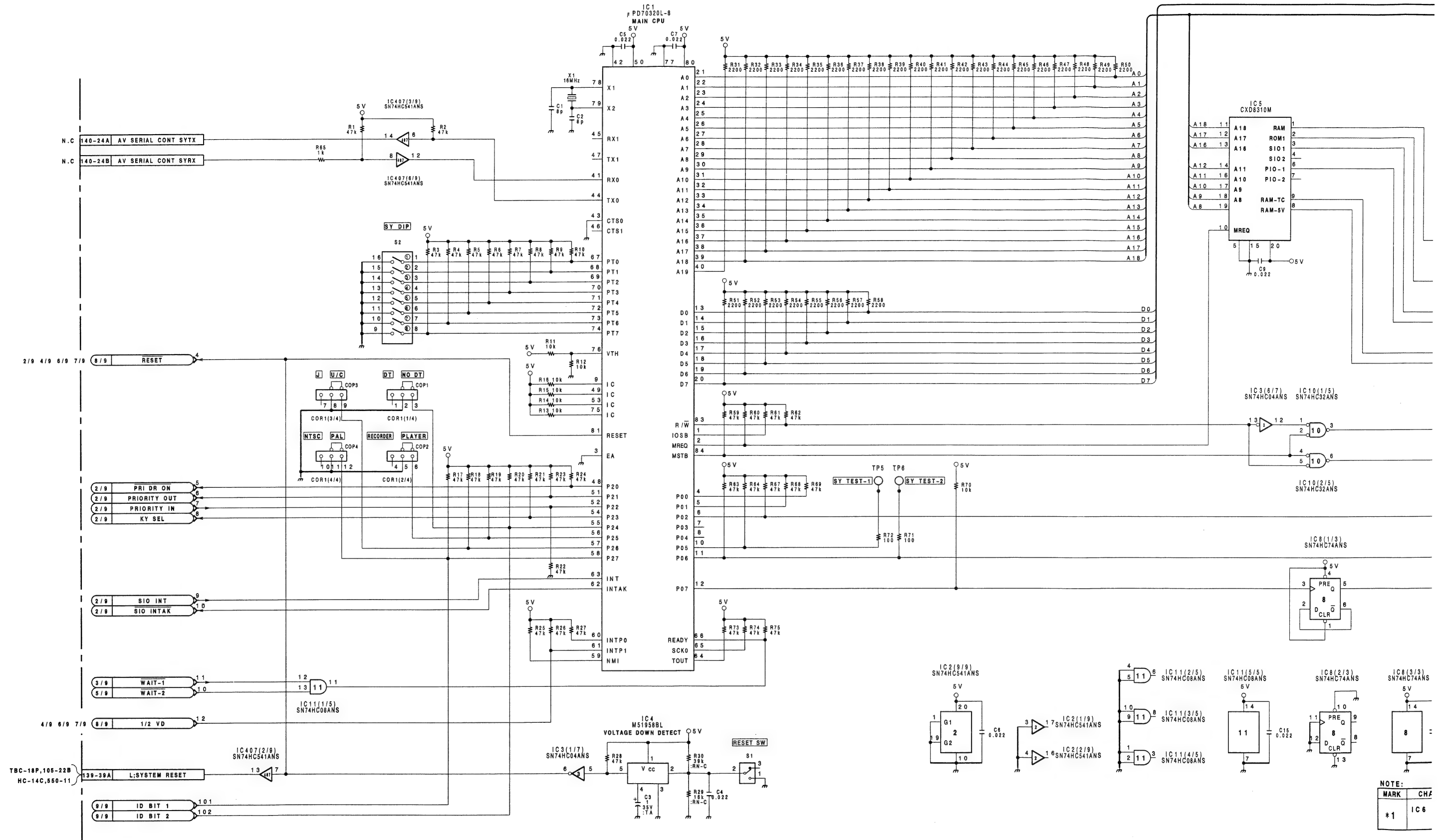
SS-48P(1-640-029-12)

TP5	P-2
TP6	P-2
TP101	L-6
TP102	K-5
TP103	L-7
TP104	L-7
TP105	L-4
TP401	J-6
TP402	N-2
TP403	K-4
TP404	Q-7
TP408	J-1
TP501	G-3
TP502	F-2
TP503	F-5
TP504	G-3
TP505	G-3
TP506	J-4
TP507	G-1
TP508	G-4
TP509	K-3
TP601	B-4
TP602	B-2
TP603	B-3
TP604	B-1
TP605	A-1
TP606	A-1
TP607	F-1
TP701	B-3
TP702	B-6
TP703	F-2
TP704	E-2
TP705	C-4
TP706	D-4
TP708	C-1
TP709	A-4
TP710	E-3
TP711	E-3
TP712	B-3
TP713	C-7
TP714	A-4
TP715	B-6
TP716	D-1
TP717	G-5
TP718	A-4
TP719	A-3
TP720	A-3
TP721	D-6
TP722	C-5
TP723	C-5
TP724	F-7
TP725	C-5
TP801	F-7
TP802	G-7
TP803	A-6
TP804	B-7
TP805	D-7
TP806	D-1

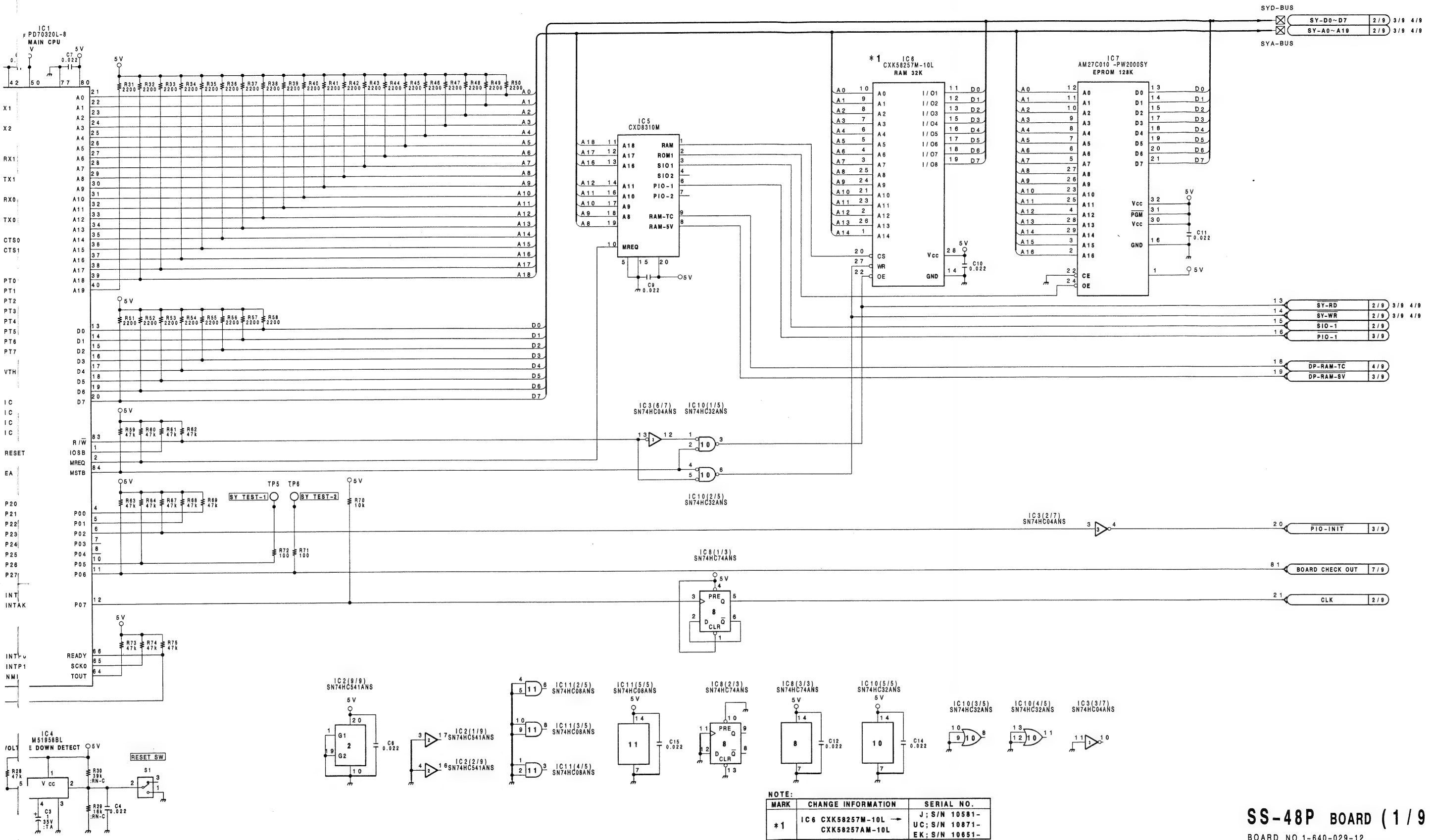
① TP104
EE/PB② TP105
EE/PB③ TP404
EE/PB④ TP408
PB⑤ TP501
EE/PB⑥ TP502
EE/PB⑦ TP503
EE/PB⑧ TP504
EE/PB⑨ TP507
EE/PB⑩ TP509
PB/EE⑪ TP606
PB⑫ TP607
EE/PB⑬ TP705
EE/PB⑭ TP706
EE/PB⑮ TP713
PB⑯ TP715
PB⑰ TP717
EE/PB⑱ TP806
PB

Serial No.(EK);10001 to 13100

SS-48P(1/9);SYSTEM CONTROL



MARK	CH#
*1	IC 6

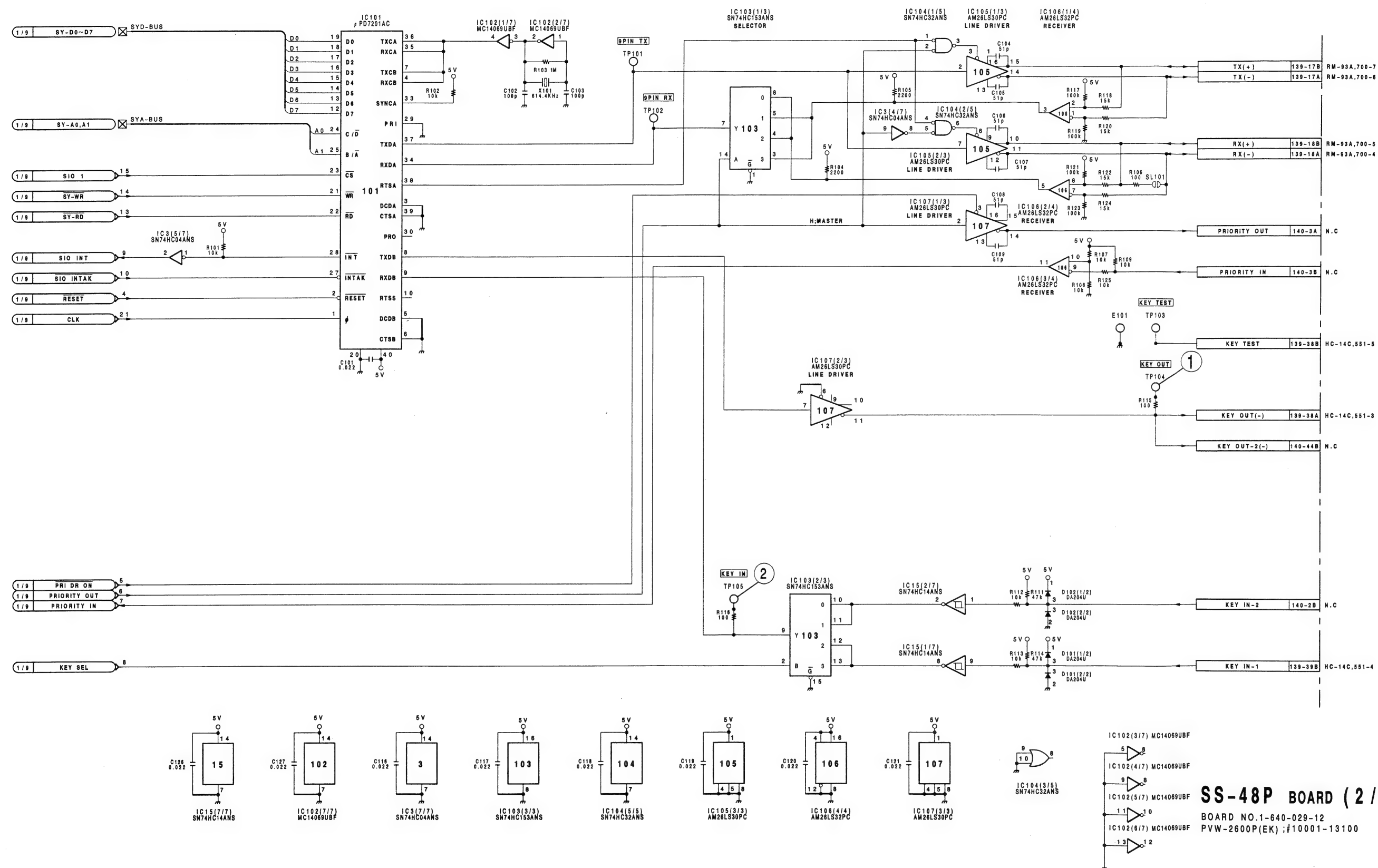


SS-48P BOARD (1/9)

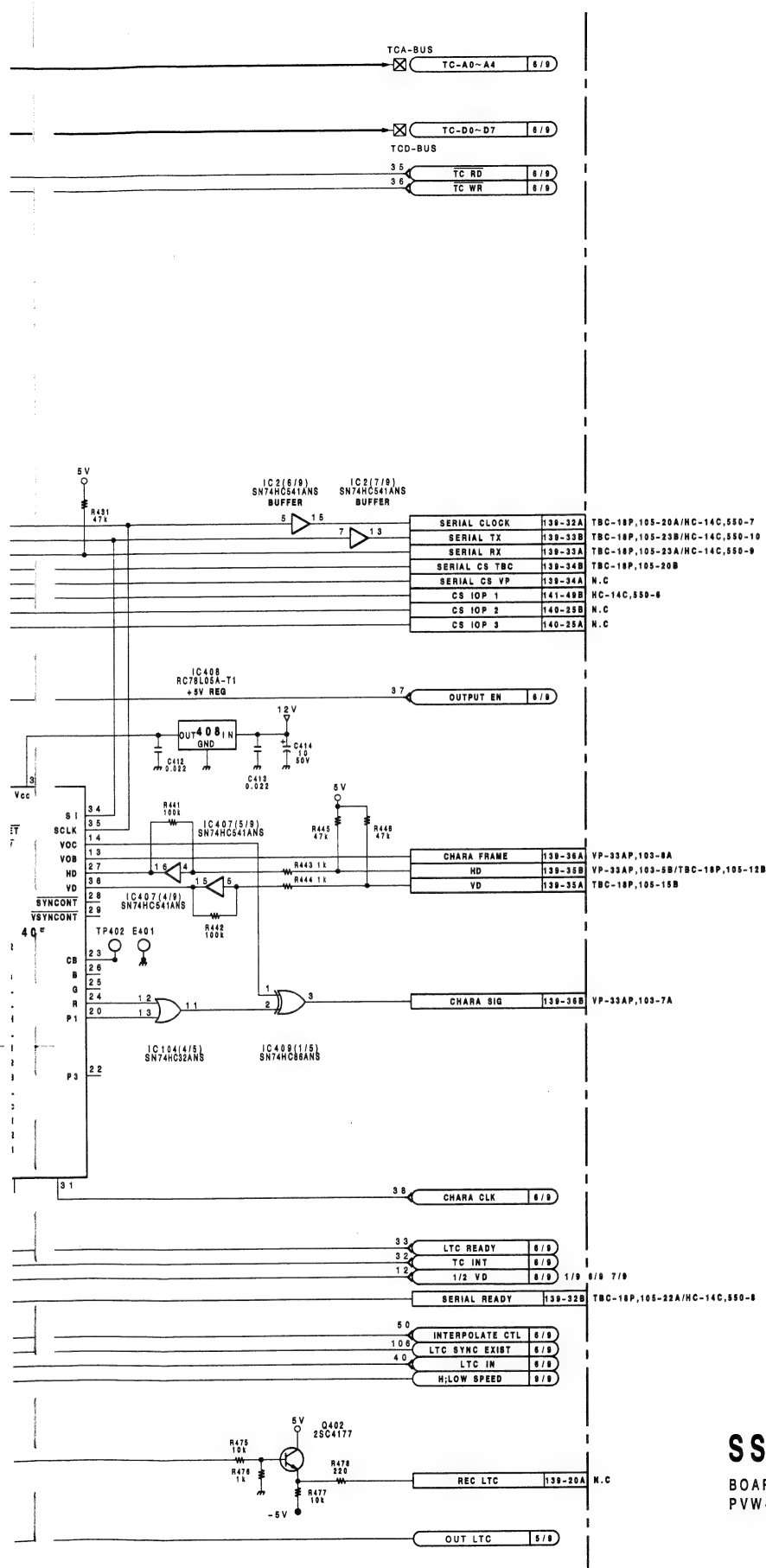
BOARD NO.1-640-029-12
PVW-2600P(EK); #10001-13100

Serial No.(EK);10001 to 13100

SS-48P(2/9);SYSTEM CONTROL

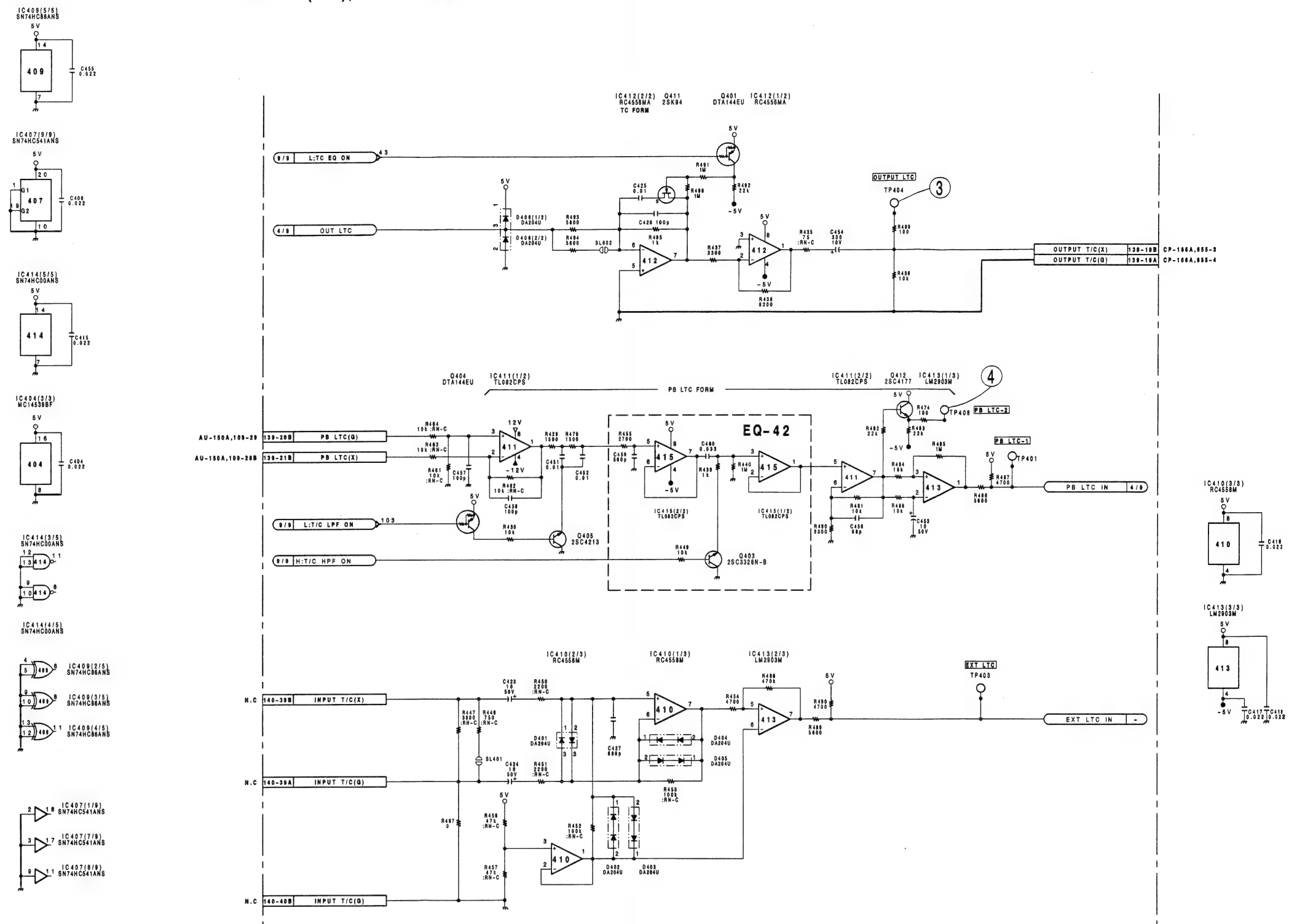


SS-48P(5/9);LTC FORMER



SS-48P BOARD (4 / 9)

BOARD NO.1-640-029-12
PVW-2600P(EK) ;#10001-13100

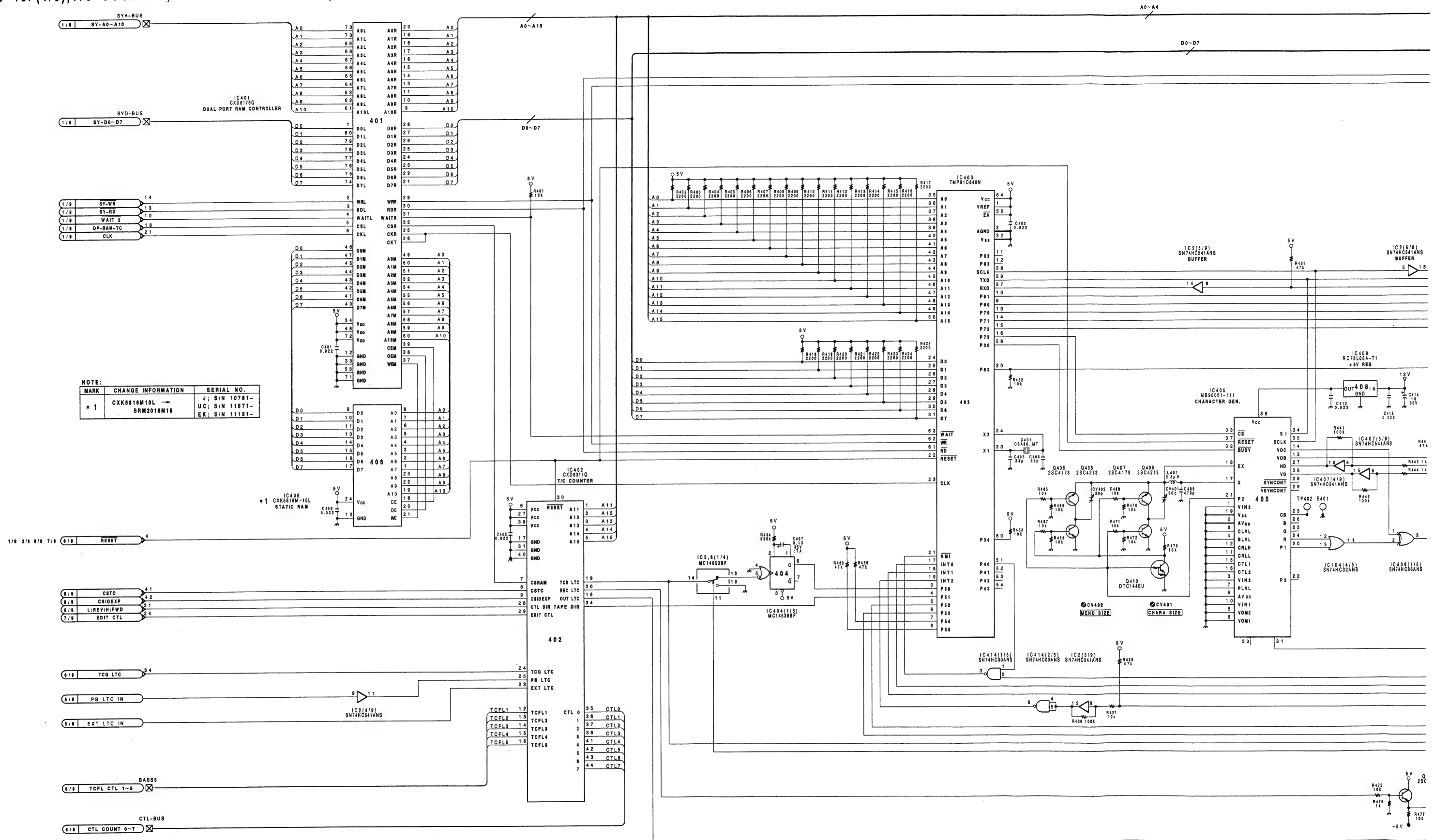


SS-48P BOARD (5 / 9)

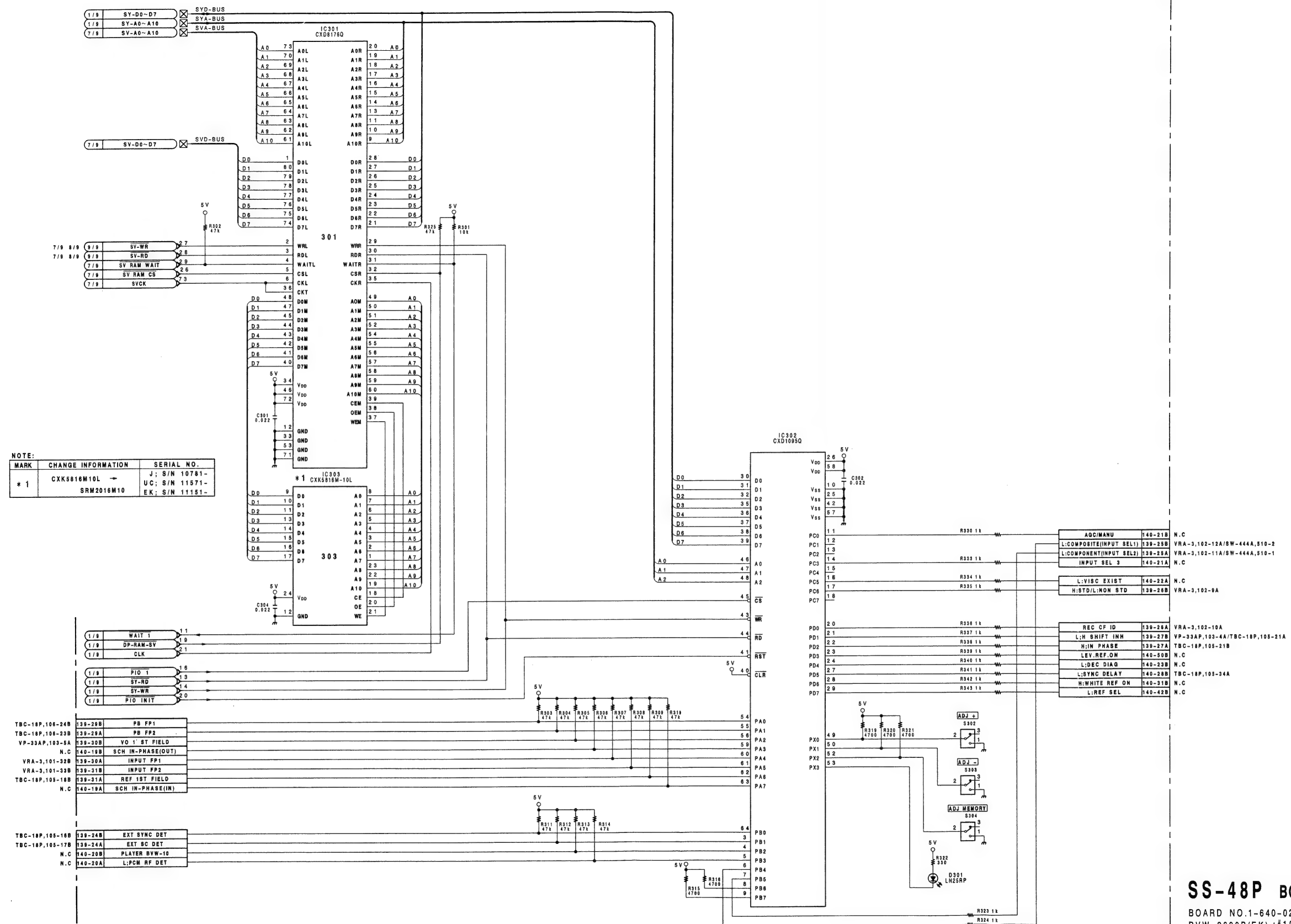
BOARD NO.1-640-029-12
PVW-2600P(EK) ;#10001-13100

Serial No.(EK);10001 to 13100

SS-48P(4/9);T/C COUNTER,DISPLAY CONTROLLER,CHARACTER GENERATOR



SS-48P(3/9);SYSTEM CONTROL



SS-48P BOARD (3 / 9)

BOARD NO.1-640-029-12
PVW-2600P(EK);#10001-13100

16-31(a)

A

B

C

D

E

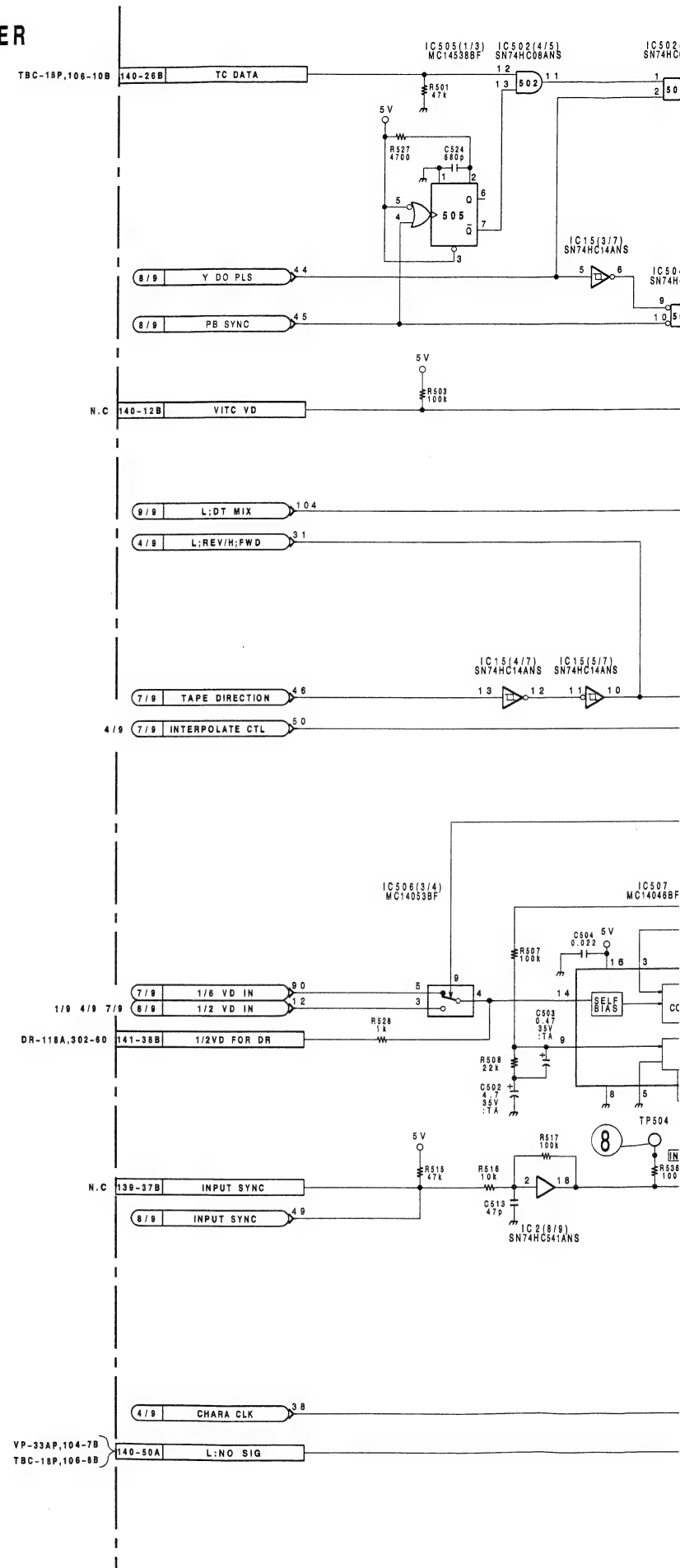
F

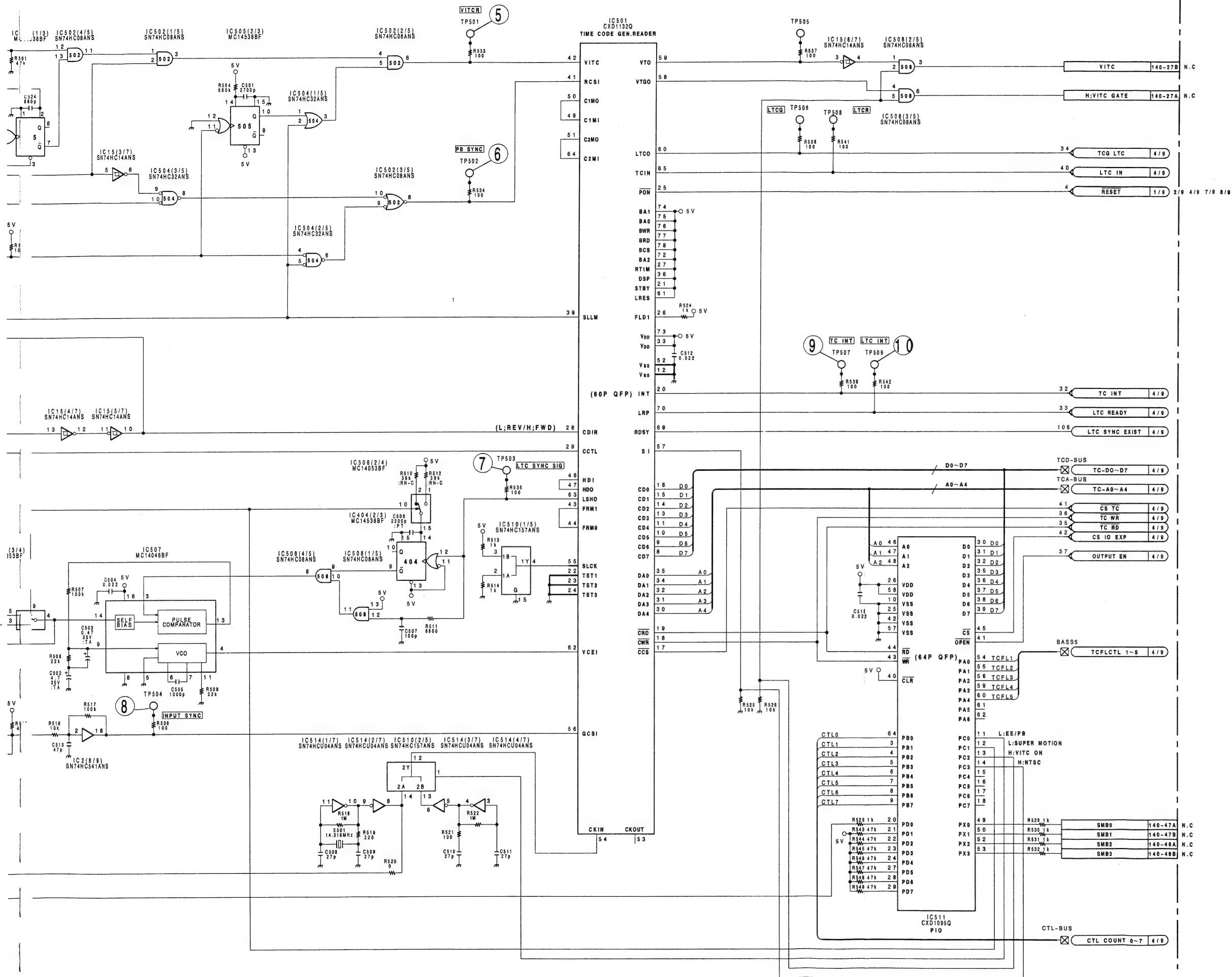
G

H

I

SS-48P(6/9);TIMECODE READER



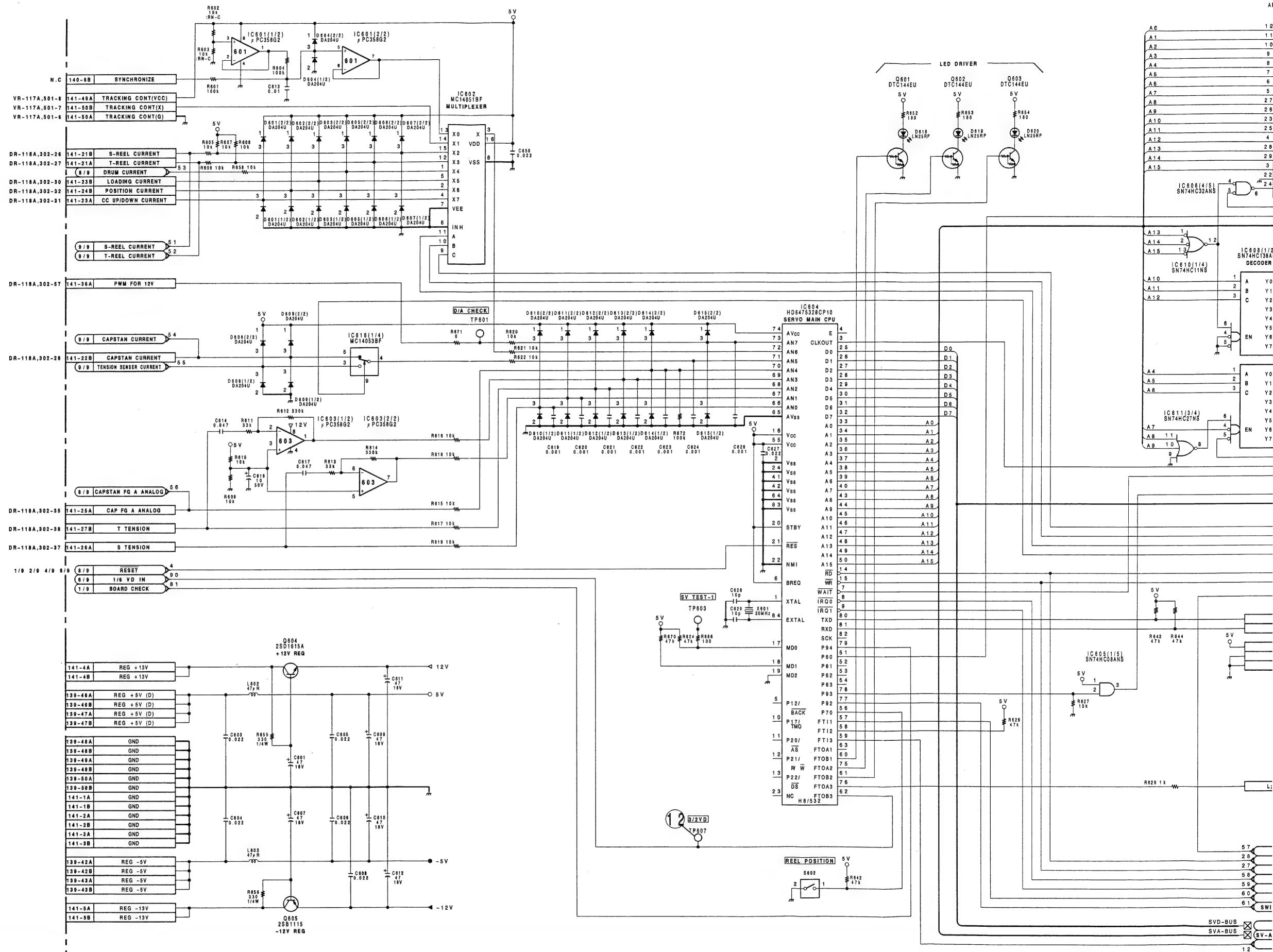


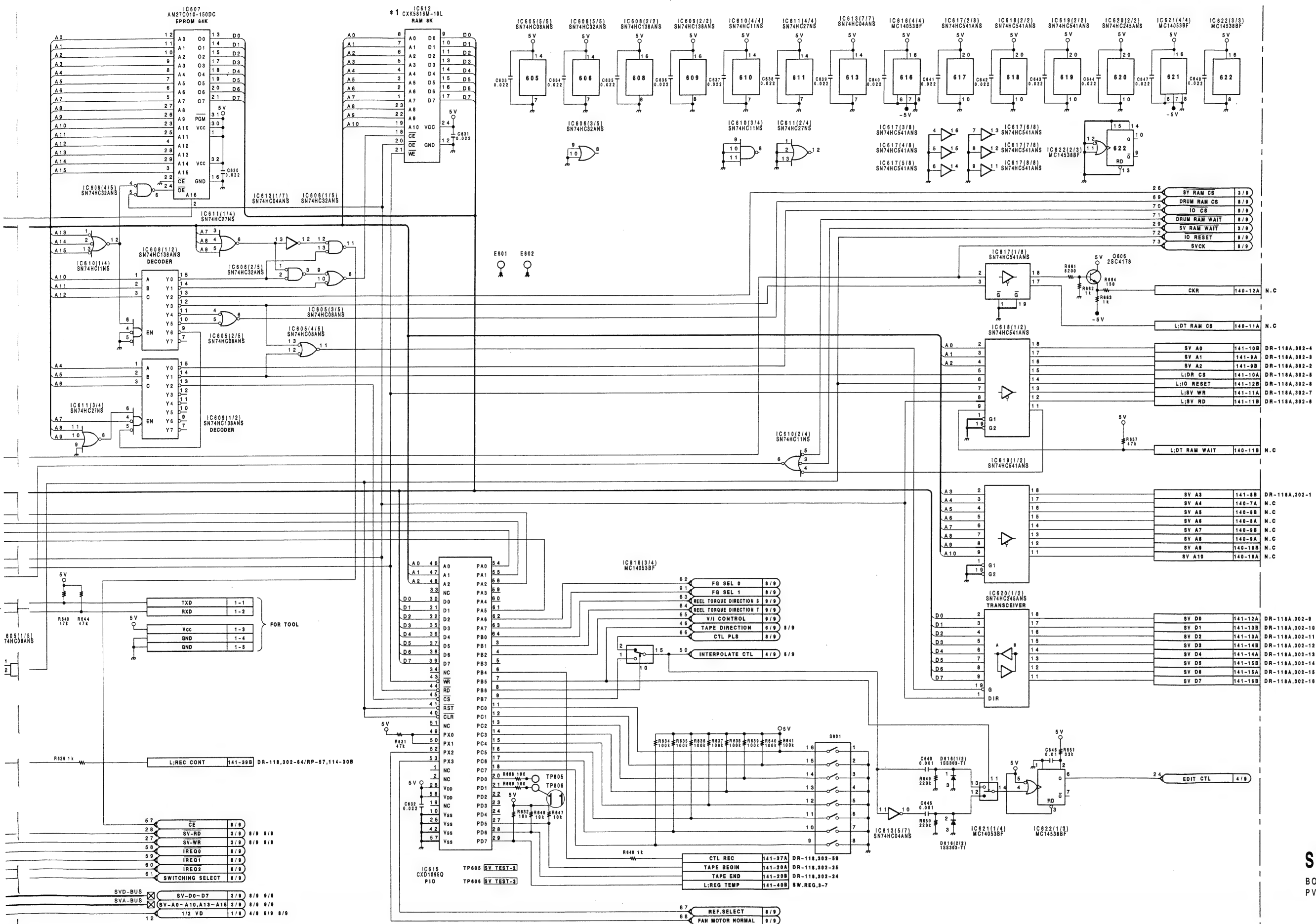
SS-48P BOARD (6 / 9)

BOARD NO.1-640-029-12
PVW-2600P(EK) ;#10001-13100

Serial No.(EK);10001 to 13100

SS-48P(7/9);SERVO SYSTEM MAIN



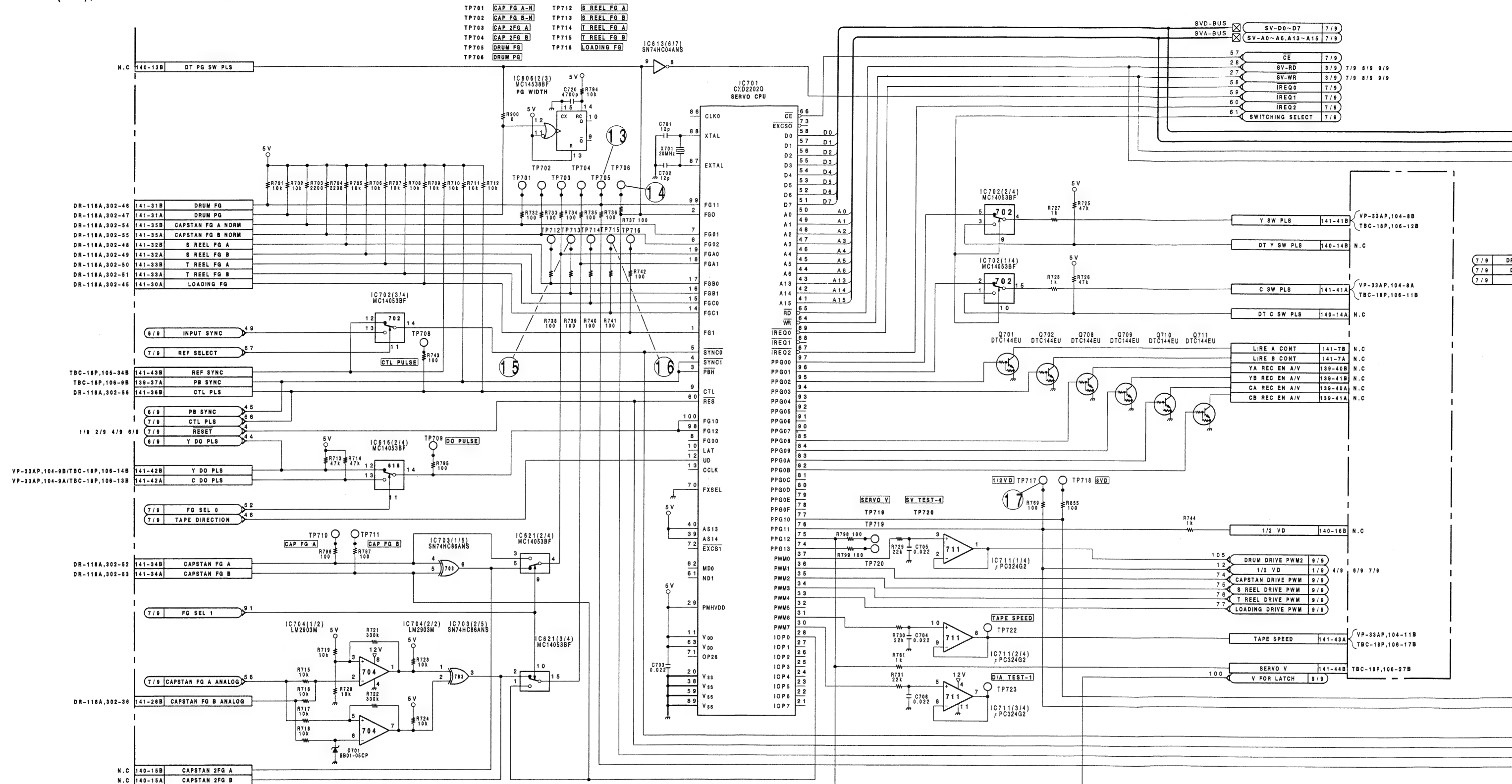


SS-48P BOARD (7 / 9)

BOARD NO.1-640-029-12
PVW-2600P(EK) ;#10001-13100

Serial No.(EK);10001 to 13100

SS-48P(8/9);SERVO SYSTEM MAIN



NOT
MAF
*

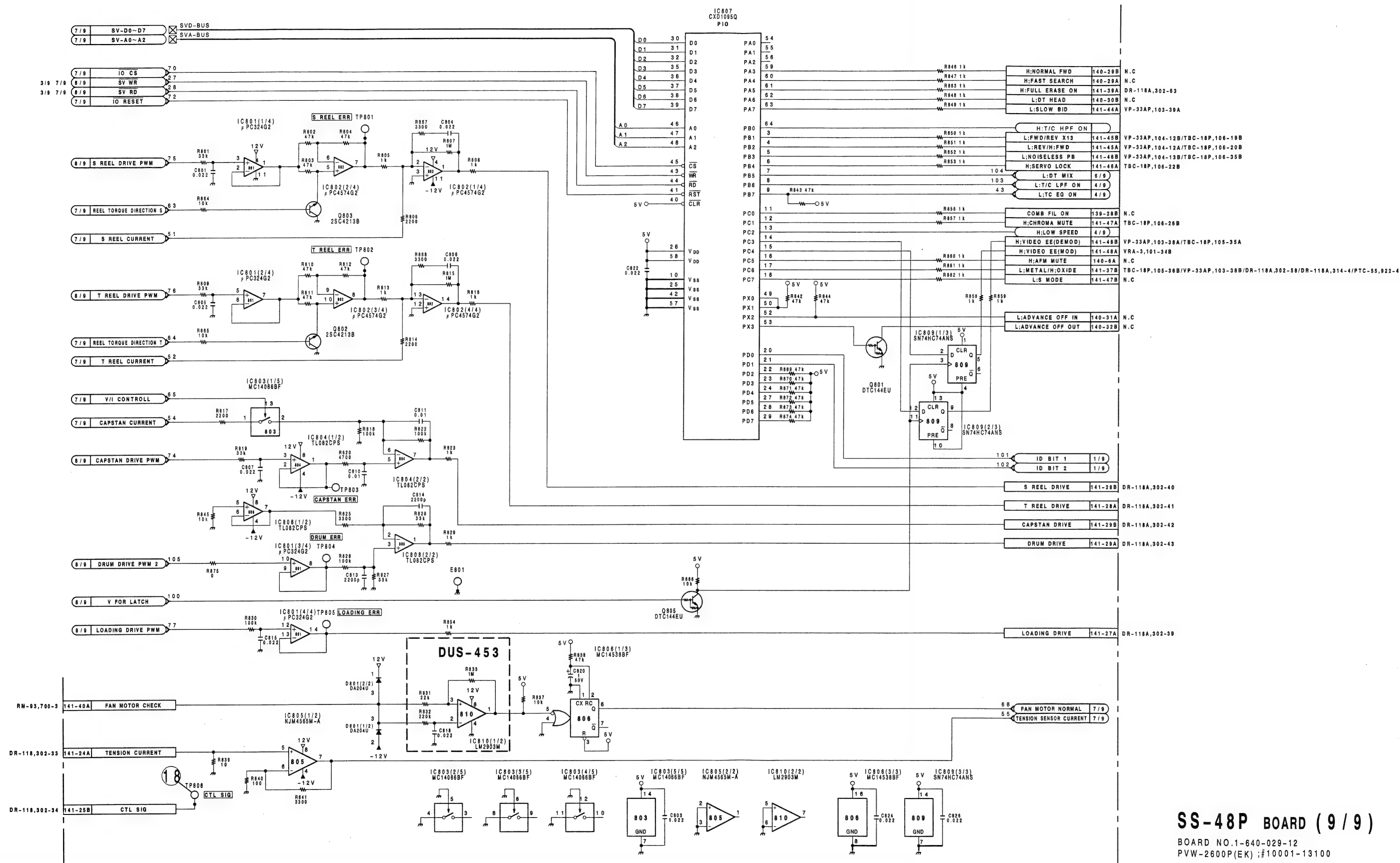
3

4

5

Serial No.(EK);10001 to 13100

SS-48P(9/9);SERVO,MODE CONTROL



SS-48P BOARD (9 / 9)

BOARD NO.1-640-029-12
PVW-2600P(EK) ;#10001-13100

C-55,922-4

))

H

I

J

K

L

16-36(a)

M

N

O

Serial No.(EK);13316 to 14285
Serial No.(UC);10001 to 10010

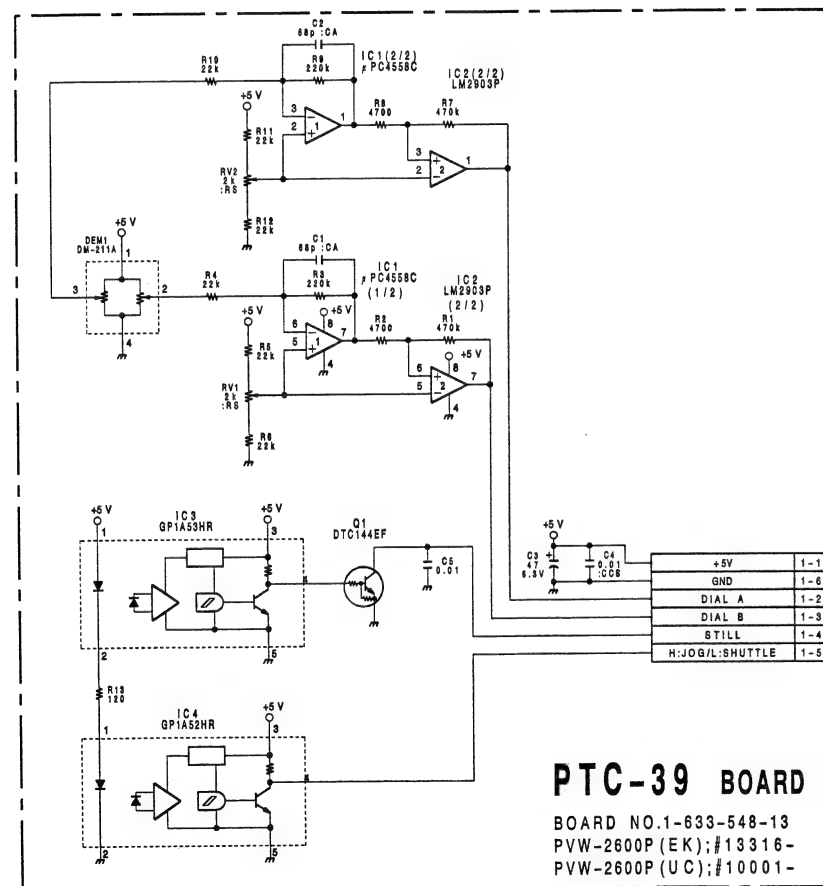
KY-210A;KEY BOARD
DP-139A;TIME CODE DISPLAY
PTC-39;SEARCH DIAL

KY-210A(1-640-050-21)

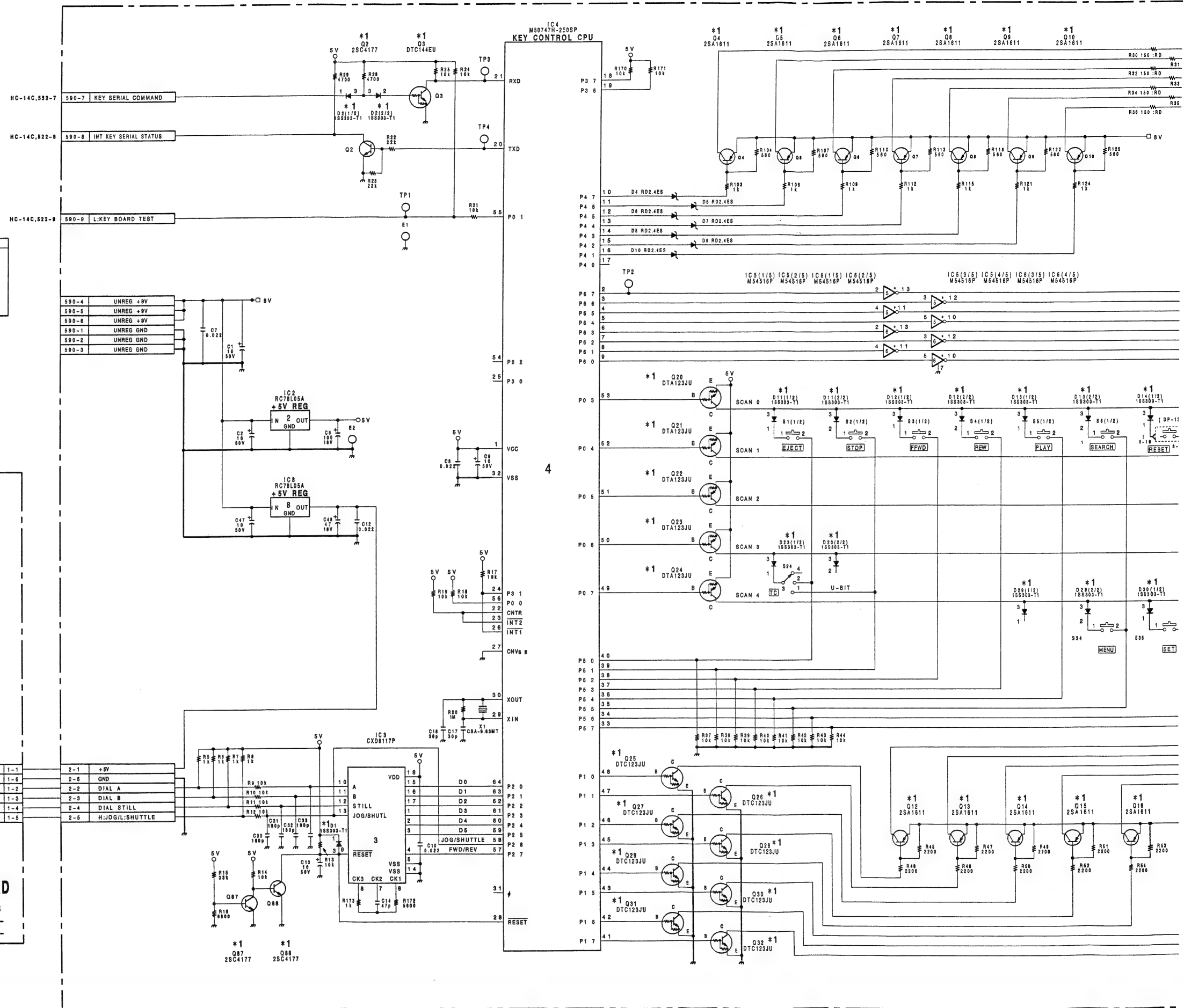
TP1 E-1
TP2 H-3
TP3 E-1
TP4 E-1

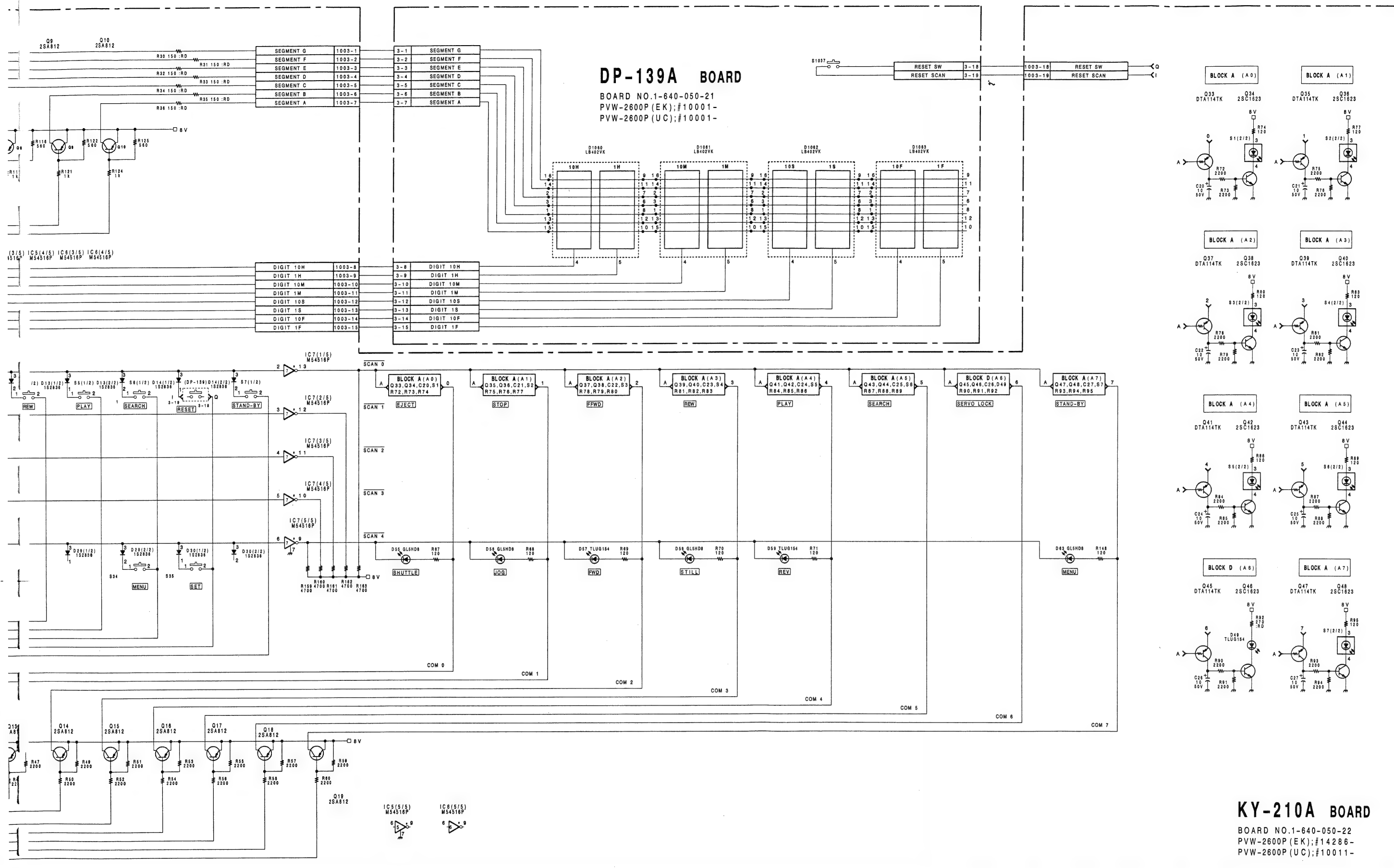
NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
*1	1S3303 → 1S2838	J; S/N 10781-
	2SA1611 → 2SA812	UC; S/N 11571-
	2SC4177 → 2SC1623	EK; S/N 11151-
	DTC144EU → DTC144EK	
	DTA114TU → DTA114TK	
	DTA123TU → DTA123JK	
	DTC123JU → DTC123JK	



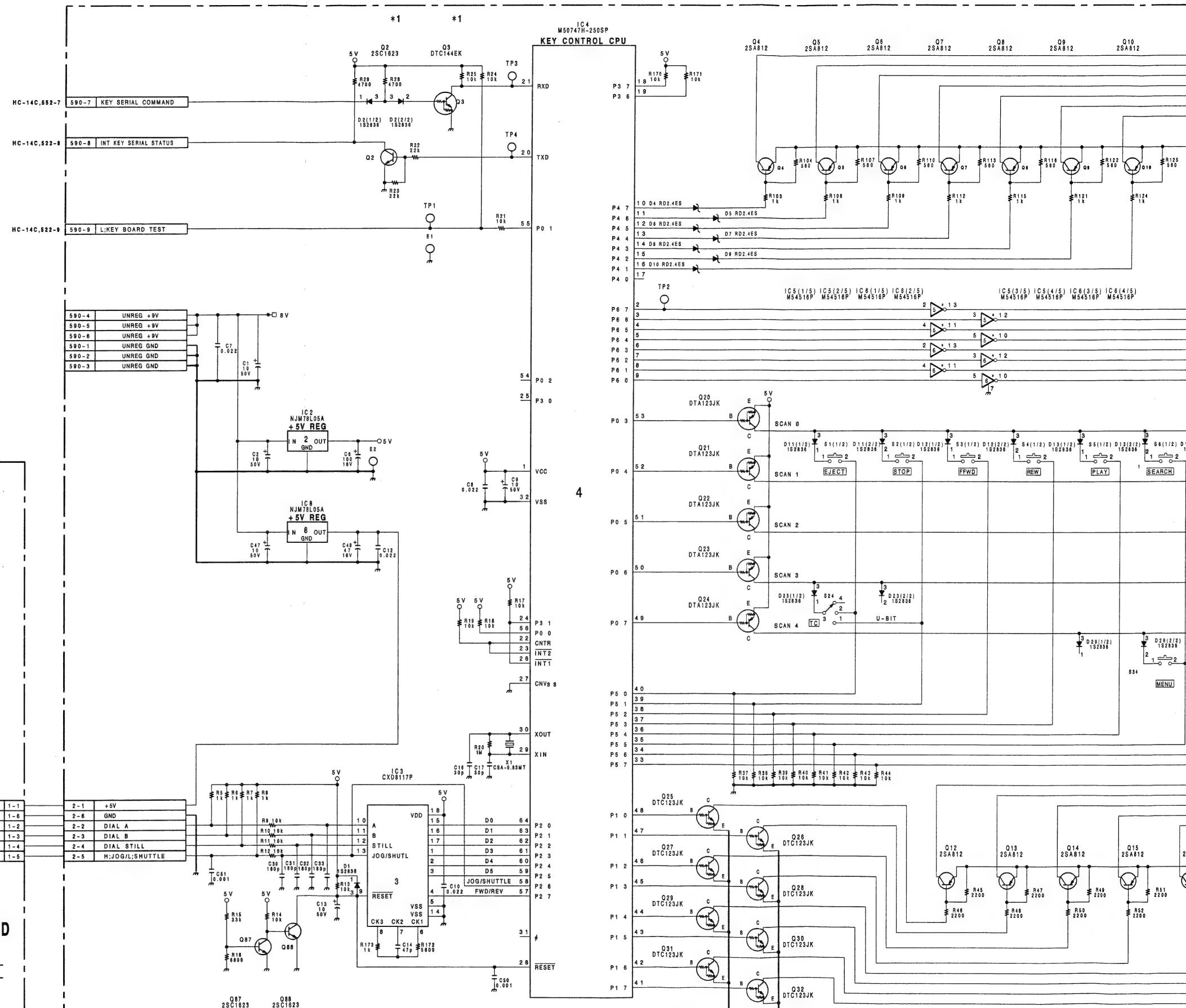
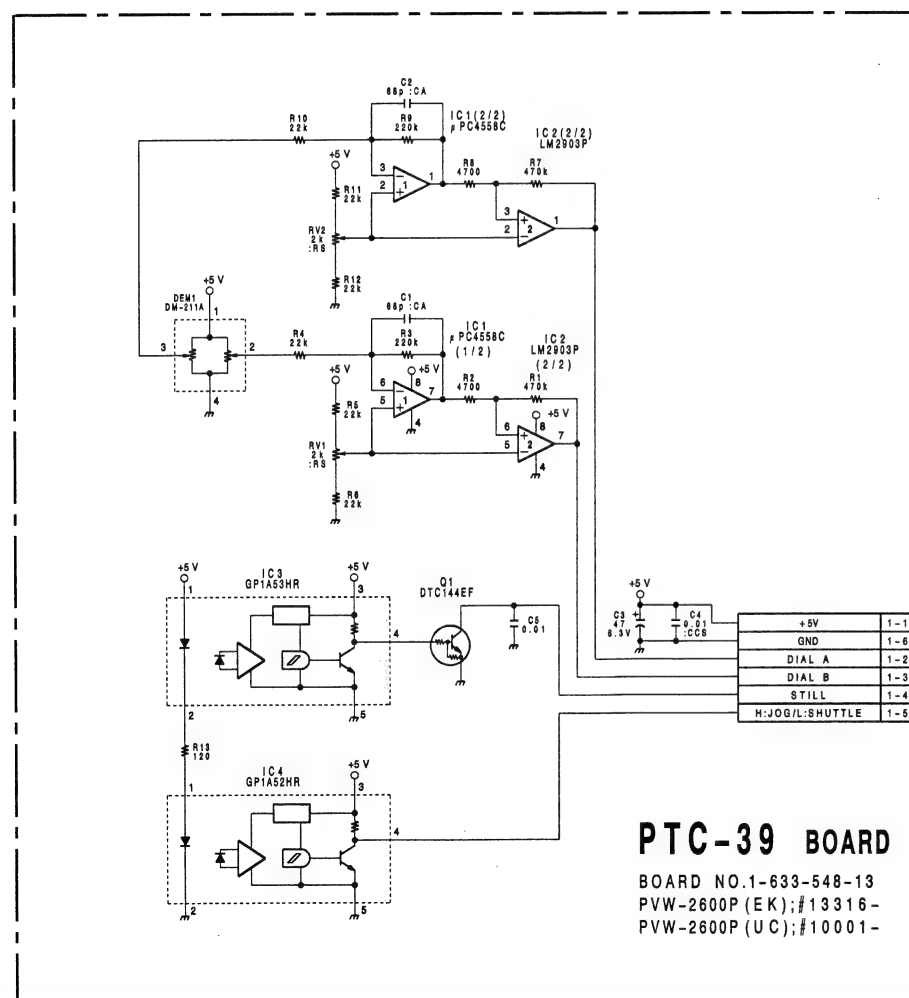
KY-210A,DP-139A,PTC-39 KY-210A,DP-139A,PTC-39

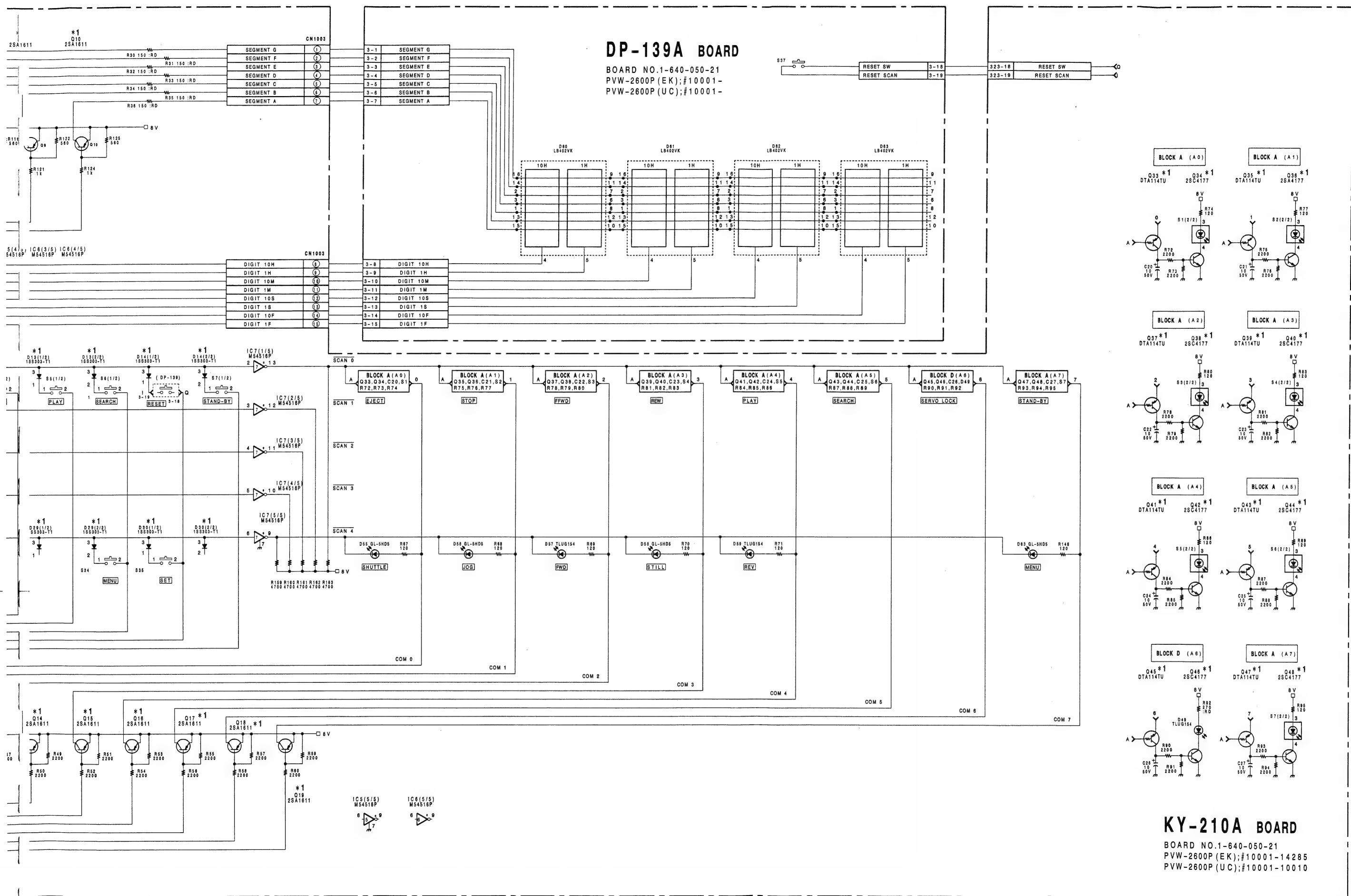




KY-210A;KEY BOARD
DP-139A;TIME CODE DISPLAY
PTC-39;SEARCH DIAL

TP 1 E-1





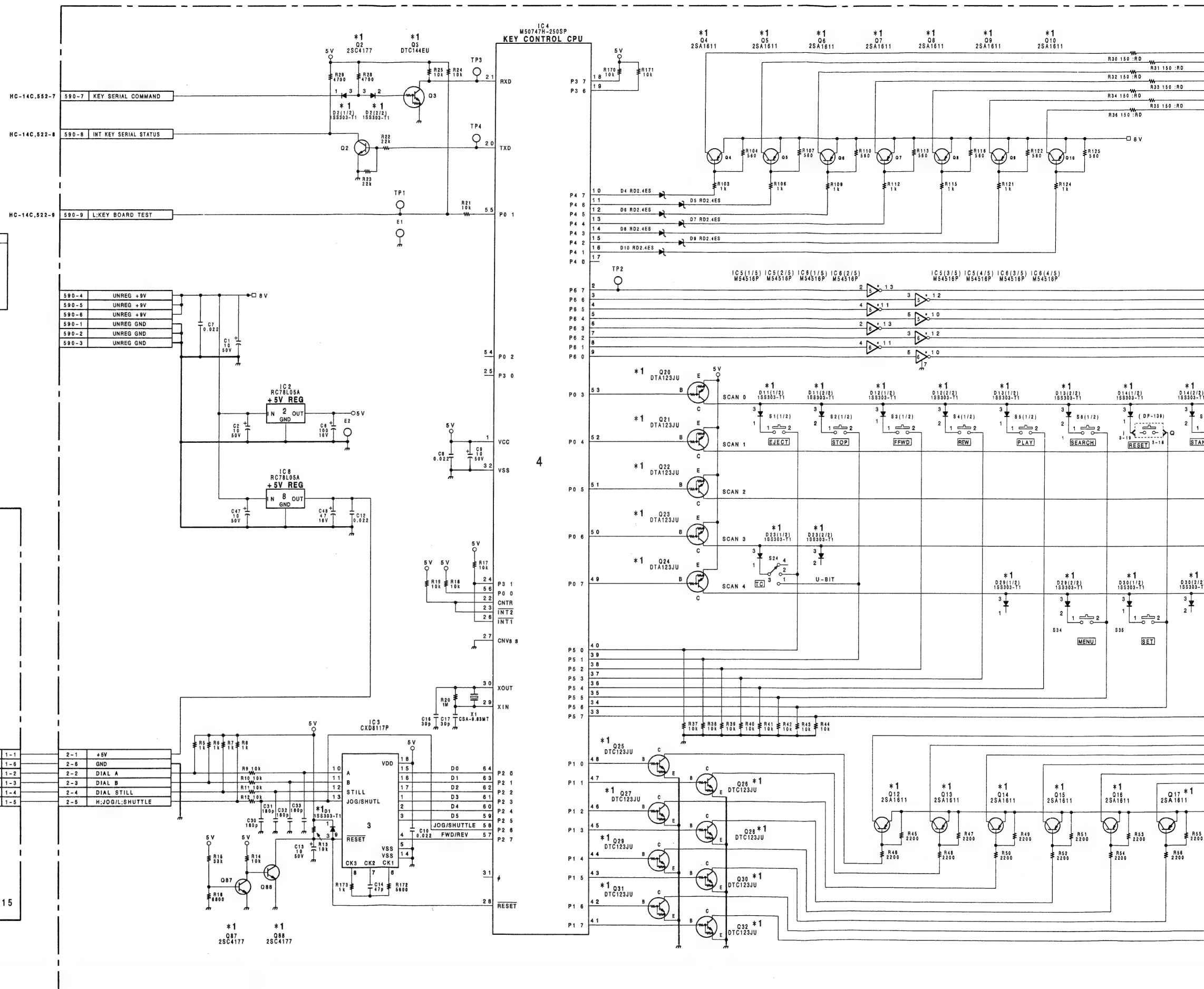
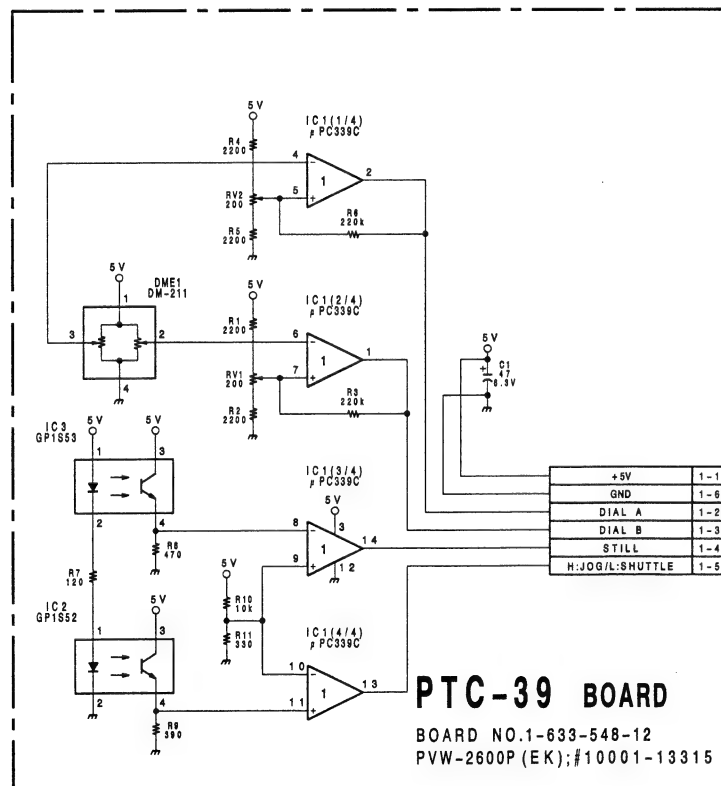
Serial No.(EK);10001 to 13315

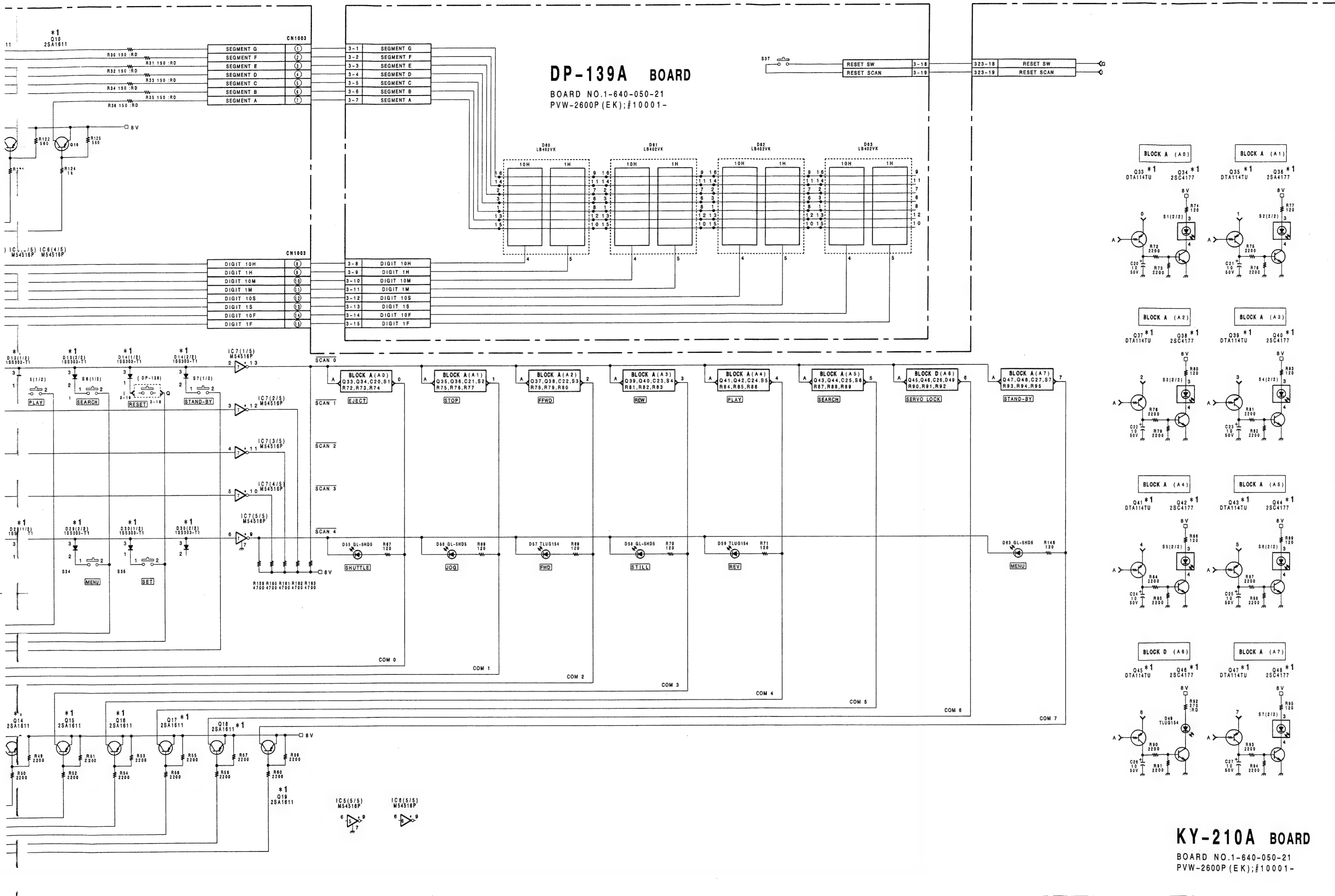
KY-210A;KEY BOARD
DP-139A;TIME CODE DISPLAY
PTC-39;SEARCH DIAL

KY-210A(1-640-050-21)

TP1	E-1
TP2	H-3
TP3	E-1
TP4	E-1

NOTE:		
MARK	CHANGE INFORMATION	SERIAL NO.
* 1	1S8303 → 1S2838 2SA1611 → 2SA812 2SC1477 → 2SC1623 DTC144EU → DTC144EK DTA114TU → DTA114TK DTA123TU → DTA123JK DTC123JU → DTC123JK	J; S/N 10781- UC; S/N 11571- EK; S/N 11151-





Serial No.(EK);10001 to 14045
Serial No.(UC);10001 to 10010

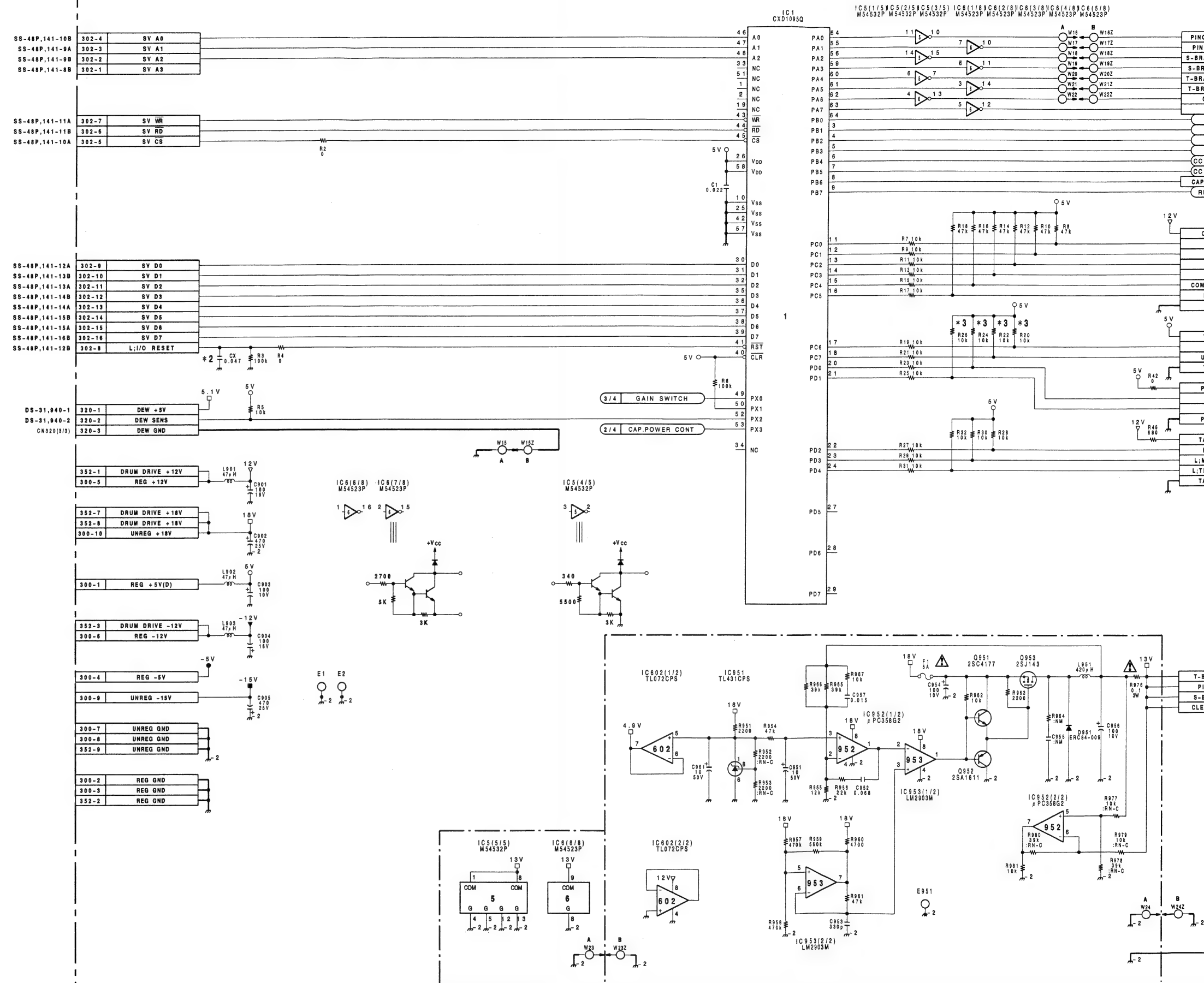
DR-118A(1/4) DR-118A(1/4)

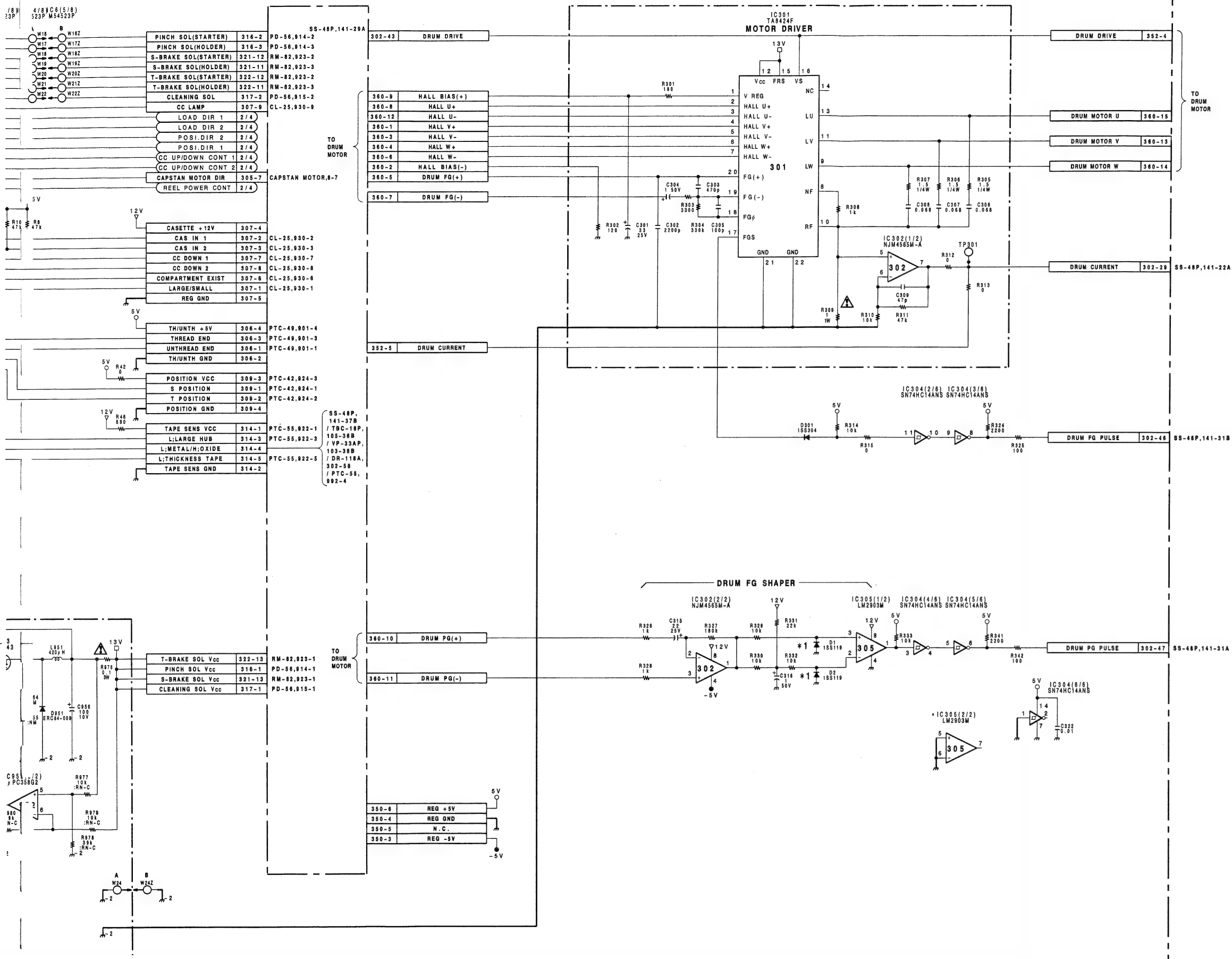
DR-118A(1/4);MOTOR DRIVER,SOLENOID DRIVER

DR-118A(1-640-030-22)

TP201 G-2
TP202 F-2
TP301 B-4
TP501 C-2
TP801 J-3

The Δ -marked components are critical to safety.
Replace only with the same components as specified.





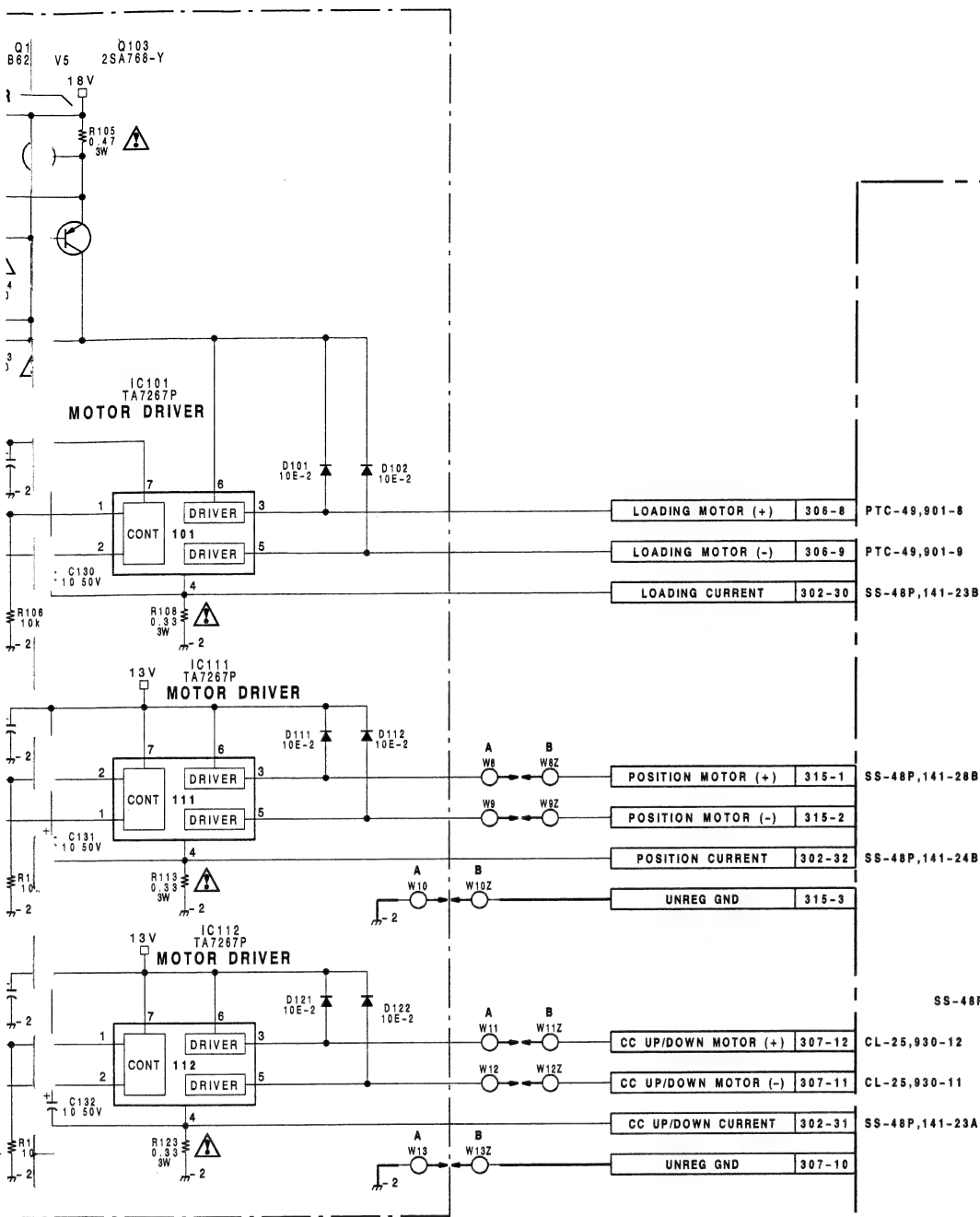
NOTE:		
MARK	CHANGE INFORMATION	SERIAL NO.
#1	D;1SS119 x 2 ADD	EK;S/N 11151-
#2	C;0.047 ADD	EK;S/N 10151-
#3	R20,22,24,26 10k → 47k	EK;S/N 11681-

DR-118A BOARD (1 / 4)

BOARD NO.1-640-030-22
PVW-2600P (EK);#10001-14045
PVW-2600P (UC);#10001-10010

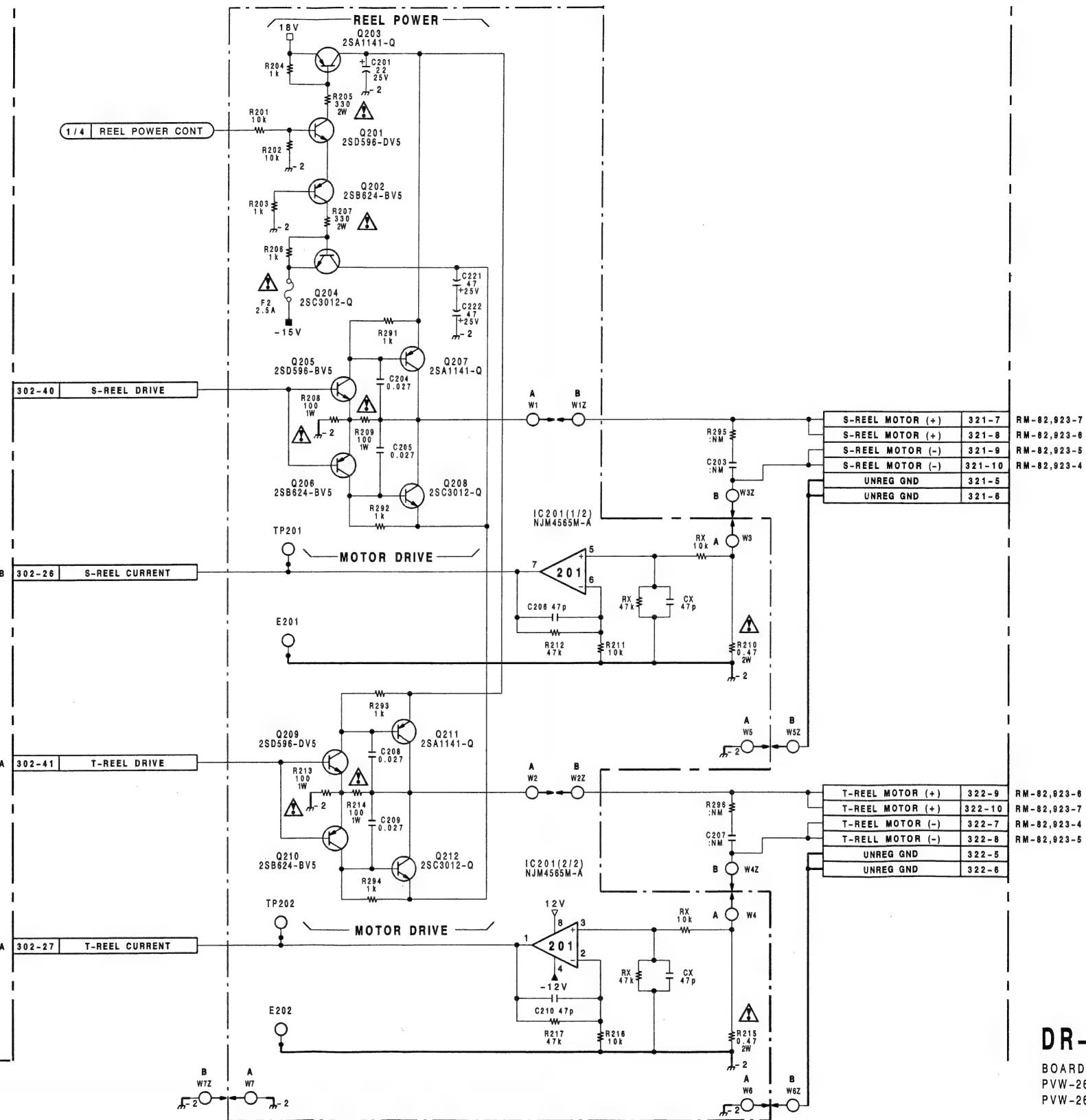
DR-118A(2/4) DR-118A(2/4)

The Δ -marked components are critical to safety.
Replace only with the same components as specified.



LOADING MOTOR (+)	306-8	PTC-49,901-8
LOADING MOTOR (-)	306-9	PTC-49,901-9
LOADING CURRENT	302-30	SS-48P,141-23B
POSITION MOTOR (+)	315-1	SS-48P,141-28B
POSITION MOTOR (-)	315-2	SS-48P,141-28B
POSITION CURRENT	302-32	SS-48P,141-24B
UNREG GND	315-3	
CC UP/DOWN MOTOR (+)	307-12	CL-25,930-12
CC UP/DOWN MOTOR (-)	307-11	CL-25,930-11
CC UP/DOWN CURRENT	302-31	SS-48P,141-23A
UNREG GND	307-10	

T-REEL DRIVE	302-41	SS-48P,141-28A
T-REEL CURRENT	302-27	SS-48P,141-21A



S-REEL MOTOR (+)	321-7	RM-82,923-7
S-REEL MOTOR (+)	321-8	RM-82,923-6
S-REEL MOTOR (-)	321-9	RM-82,923-5
S-REEL MOTOR (-)	321-10	RM-82,923-4
UNREG GND	321-5	
UNREG GND	321-6	
T-REEL MOTOR (+)	322-9	RM-82,923-6
T-REEL MOTOR (+)	322-10	RM-82,923-7
T-REEL MOTOR (-)	322-7	RM-82,923-4
T-REEL MOTOR (-)	322-8	RM-82,923-5
UNREG GND	322-5	
UNREG GND	322-6	

DR-118A BOARD (2/4)
BOARD NO.1-640-030-22
PVW-2600P(EK);#10001-14045
PVW-2600P(UC);#10001-10010

DR-118A(3/4) DR-118A(3/4)

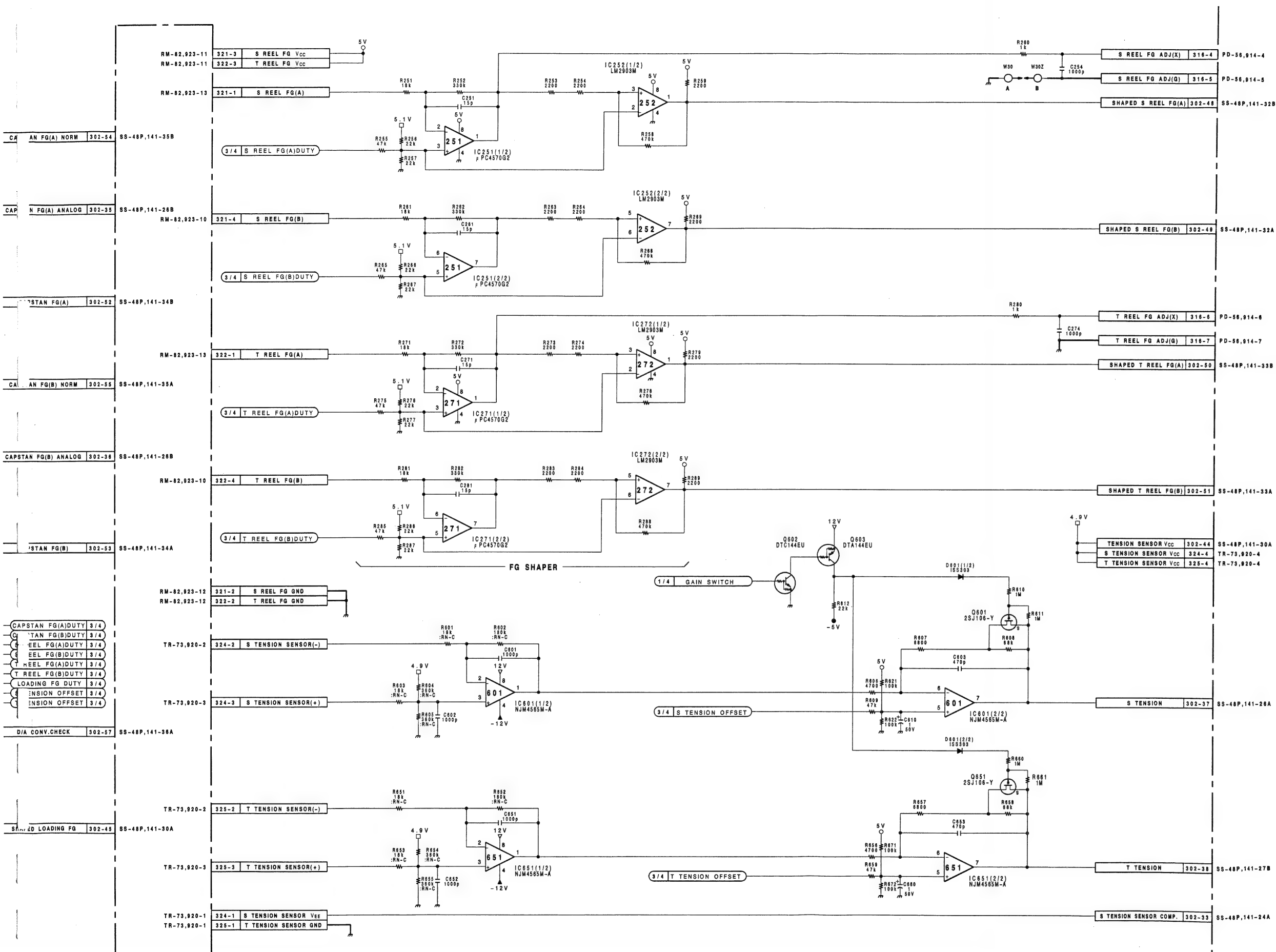
1



3

4

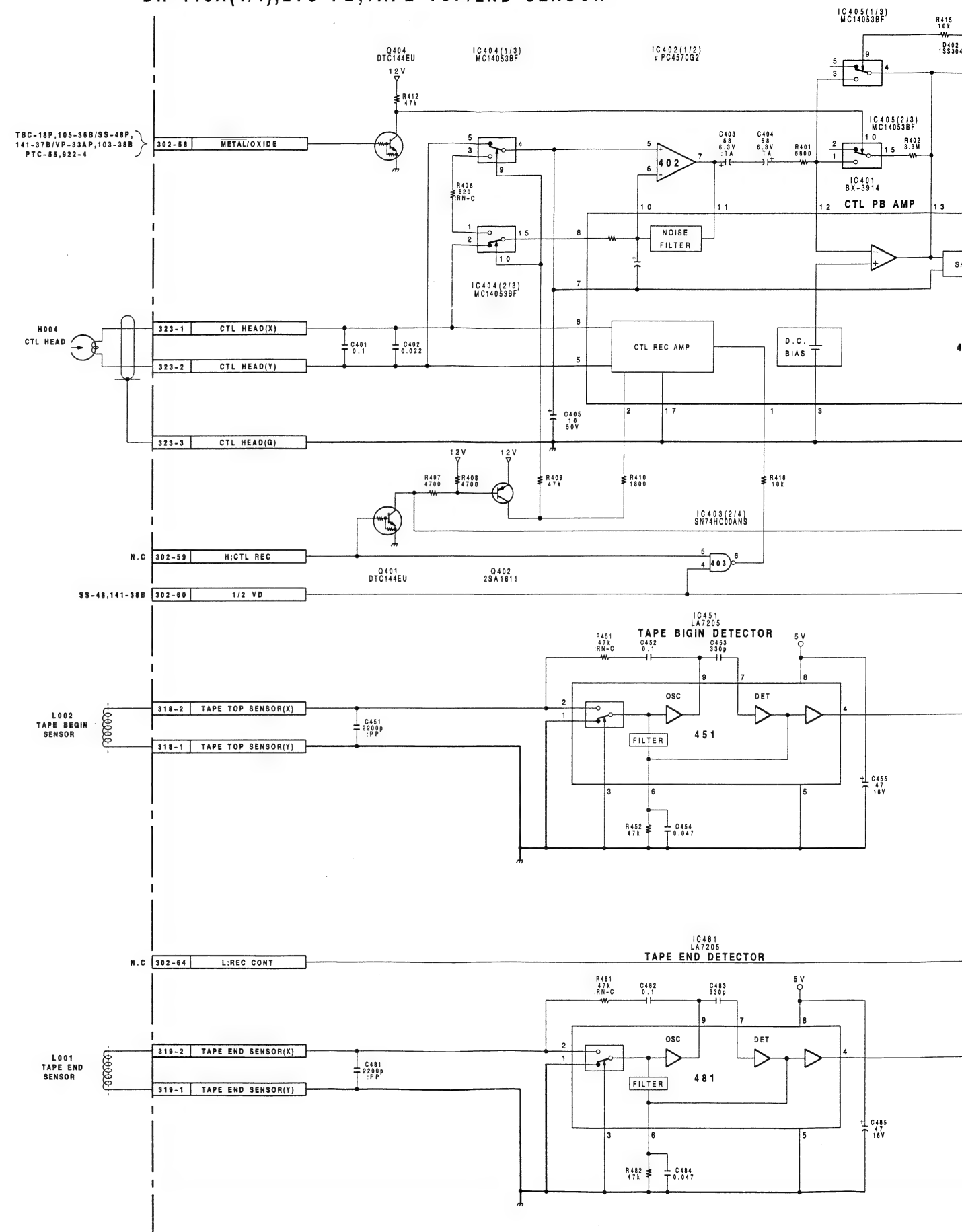
5



DR-118A BOARD (3/4)

BOARD NO.1-640-030-22
PVW-2600P(EK);#10001-14045
PVW-2600P(UC);#10001-10010

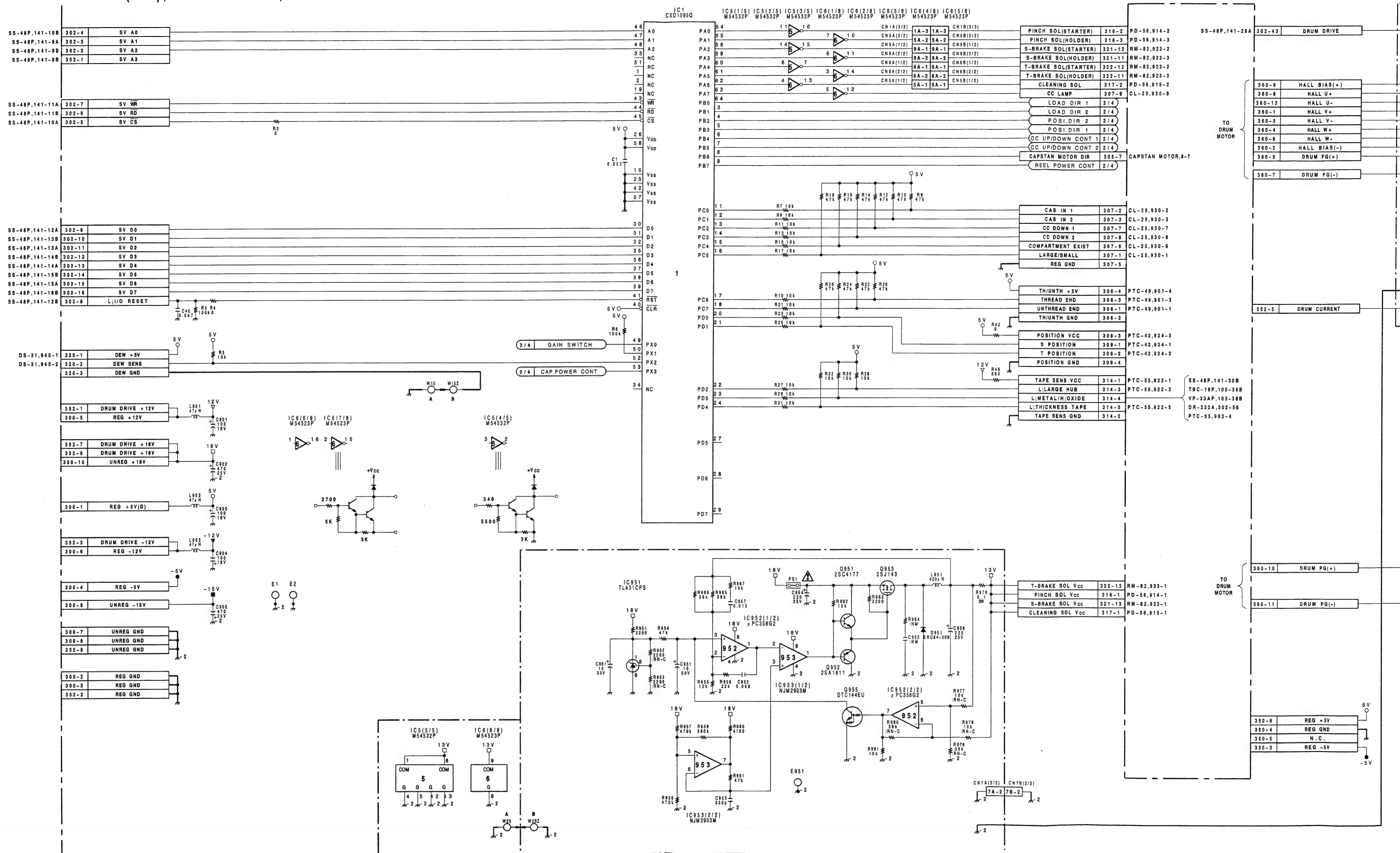
DR-118A(4/4);LTC PB,TAPE TOP/END SENSOR



Serial No.(EK);14046 and higher
Serial No.(UC);10011 and higher

DR-232A(1/4); MOTOR DRIVER,SOLENOID DRIVER

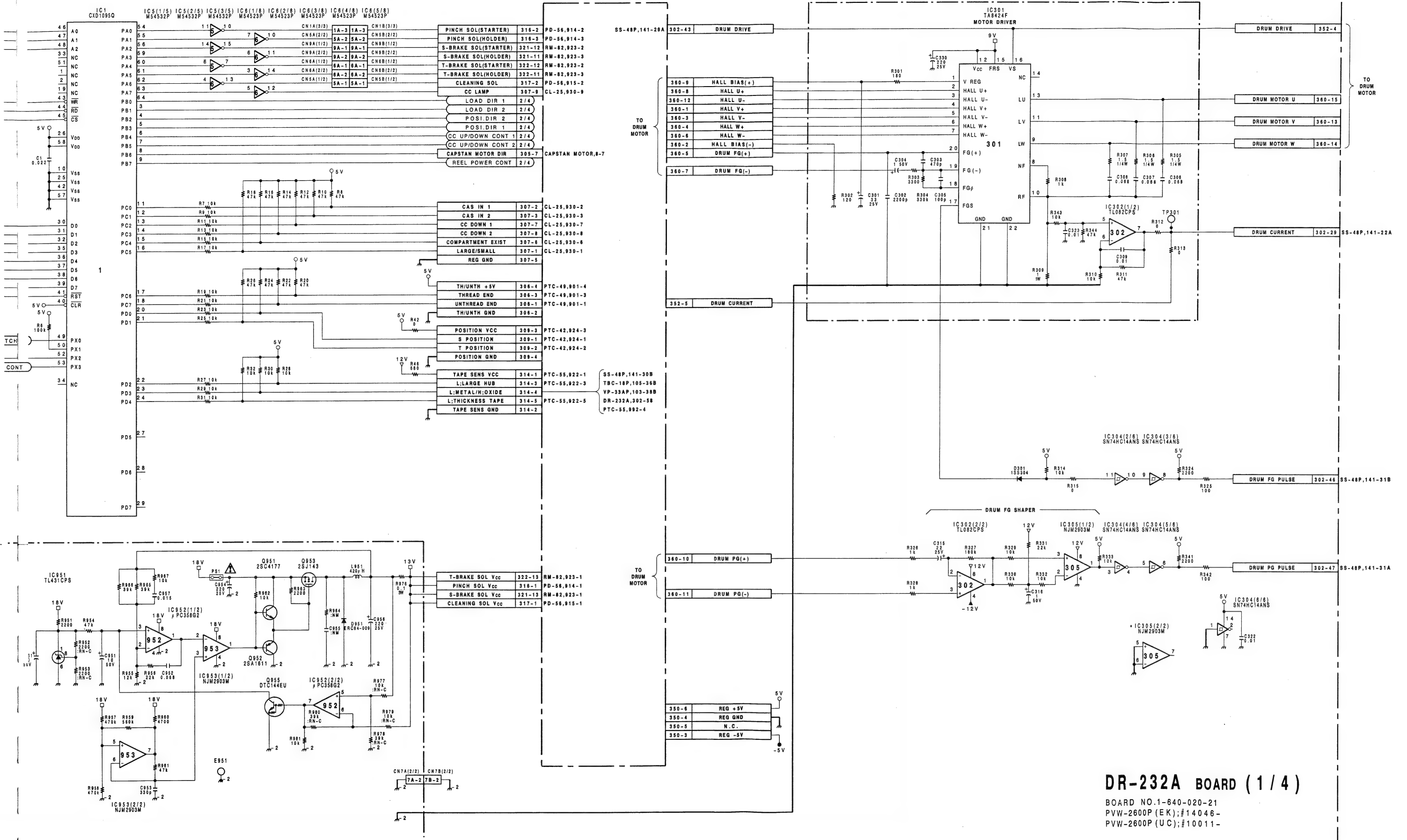
The Δ -marked components are critical to safety.
Replace only with the same components as specified.



The Δ -marked components are critical to safety.

Replace only with the same components as specified.

DR-232A(1/4) DR-232A(1/4)



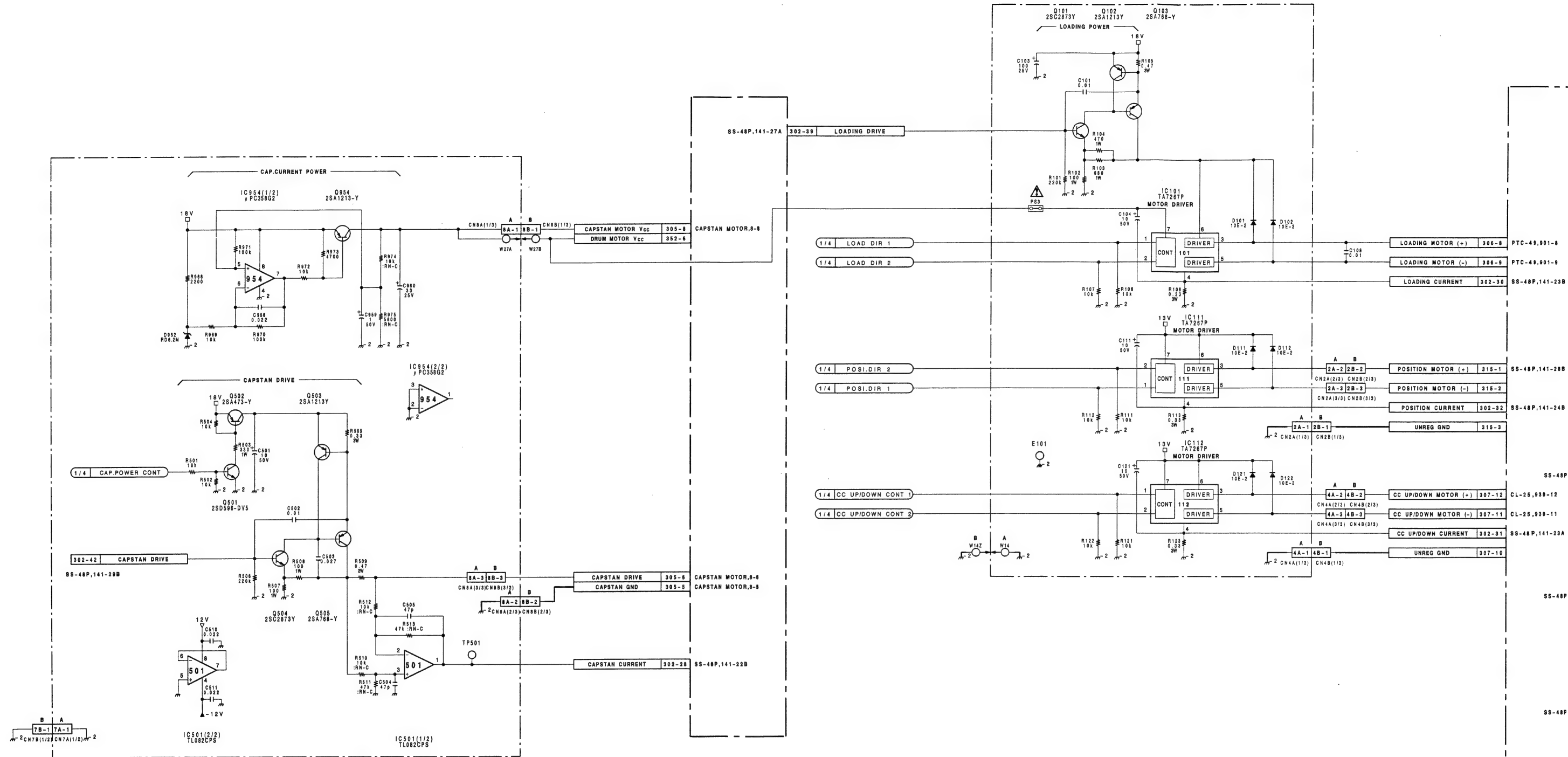
DR-232A BOARD (1/4)

BOARD NO.1-640-020-21
PVW-2600P (EK);#14046-
PVW-2600P (UC);#10011-

Serial No.(EK);14046 and higher
Serial No.(UC);10011 and higher

DR-232A(2/4) DR-232A(2/4)

DR-232A(2/4); MOTOR DRIVER



A

B

C

D

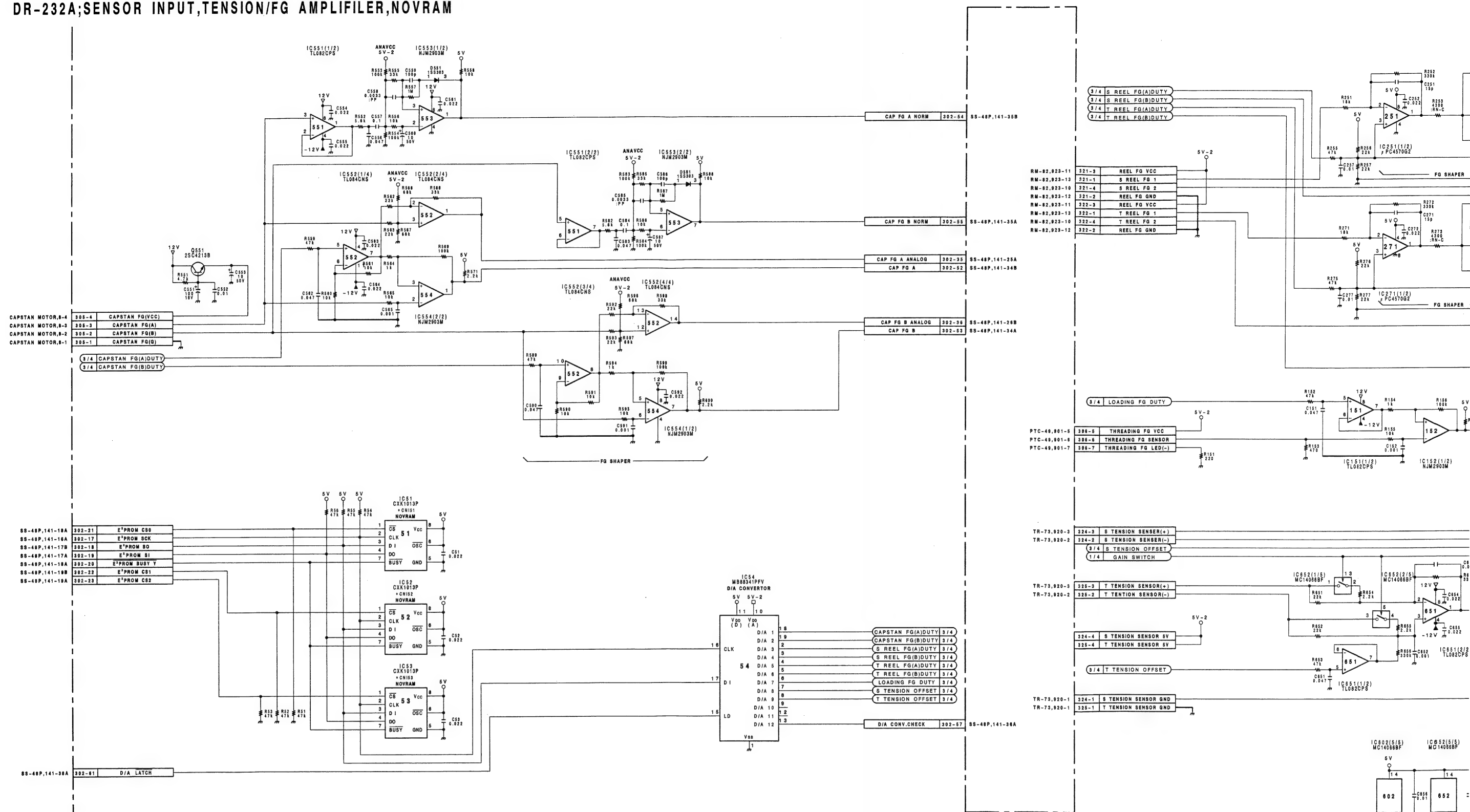
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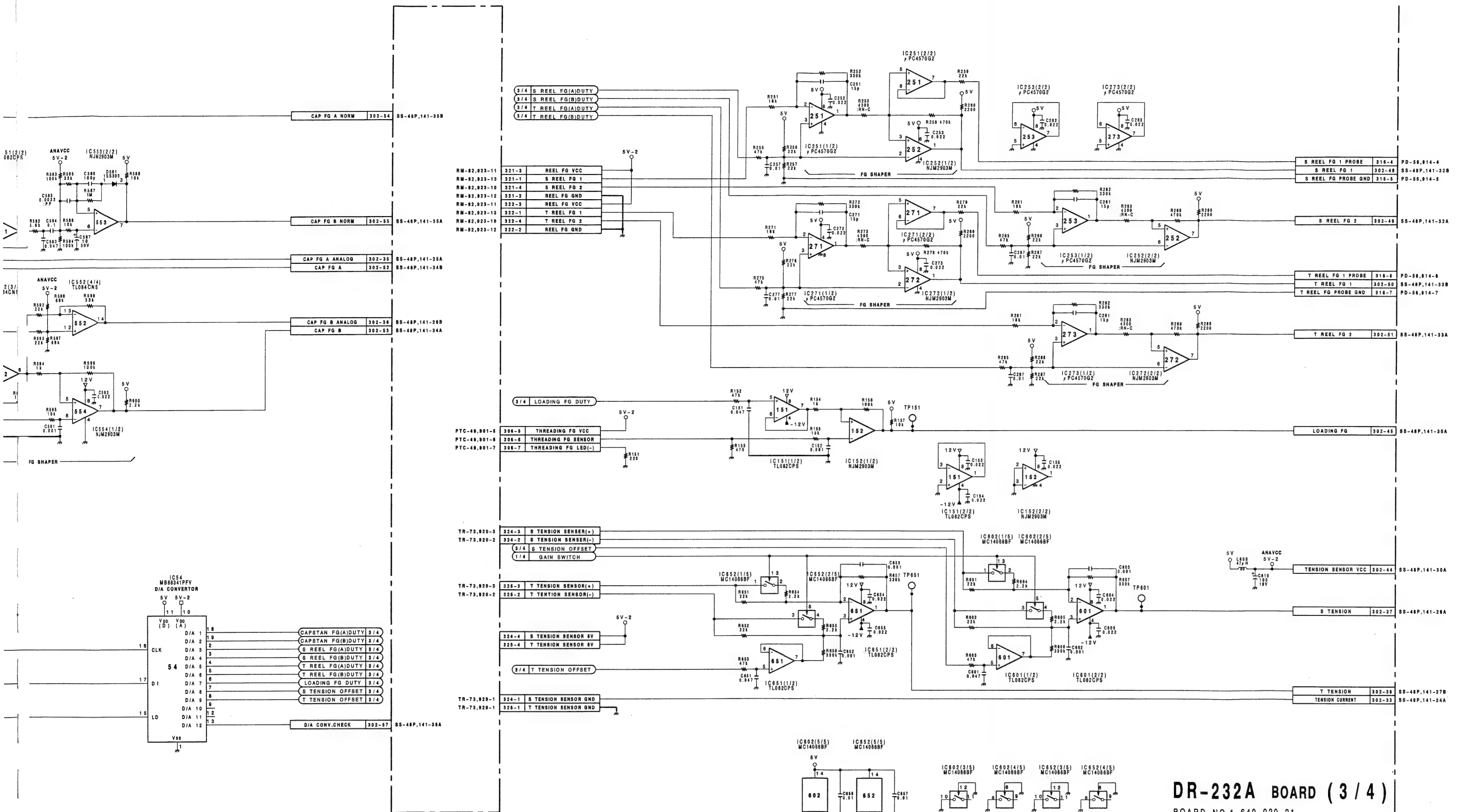
F

G

H

DR-232A;SENSOR INPUT,TENSION/FG AMPLIFILER,NOVRAM





DR-232A BOARD (3 / 4)

BOARD NO.1-640-020-21
PVW-2600P(EK);#14046-
PVW-2600P(UC);#10011-

DR-232A(4/4) DR-232A(4/4)

2A(4/4); LTC PB,TAPE TOP/END SENSOR

The schematic diagram illustrates the LTC PB, TAPE TOP/END SENSOR section of the DR-232A BOARD. It features several key components and connections:

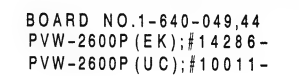
- Inputs and Sensors:** H004 CTL HEAD (302-58), 302-59 H:CTL REC, 302-60 1/2 VD, L002 TAPE BEGIN SENSOR (318-2 TAPE TOP SENSOR(X), 318-1 TAPE TOP SENSOR(Y)), and L001 TAPE END SENSOR (319-2 TAPE END SENSOR(X), 319-1 TAPE END SENSOR(Y)).
- ICs and Functional Blocks:** IC401 (CTL PB AMP), IC402 (1/2), IC403 (1/4), IC404 (3/3), IC405 (3/3), IC451 (LA7205 TAPE BEGIN DETECTOR), IC481 (LA7205 TAPE END DETECTOR), and IC901 (NJM7812FA).
- Resistors and Capacitors:** Various resistors (R401-R418) and capacitors (C401-C409) are used for signal conditioning and timing.
- Diodes:** D401, D402, D403, and D404 are used for signal rectification and protection.
- Connectors:** 302-58, 302-59, 302-60, 302-25, 307-4, and 302-24.

DR-232A BOARD
BOARD NO.1-640-020-21
PVW-2600P (E);#14046-
PVW-2600P (U);#10011-

BOARD NO.1-640-020-21
PVW-2600P (E K);#14046-
PVW-2600P (U C);#10011-

HC-14C(1/2) HC-14C(1/2)

TP1 D-2



A

B

C

D

E

F

•

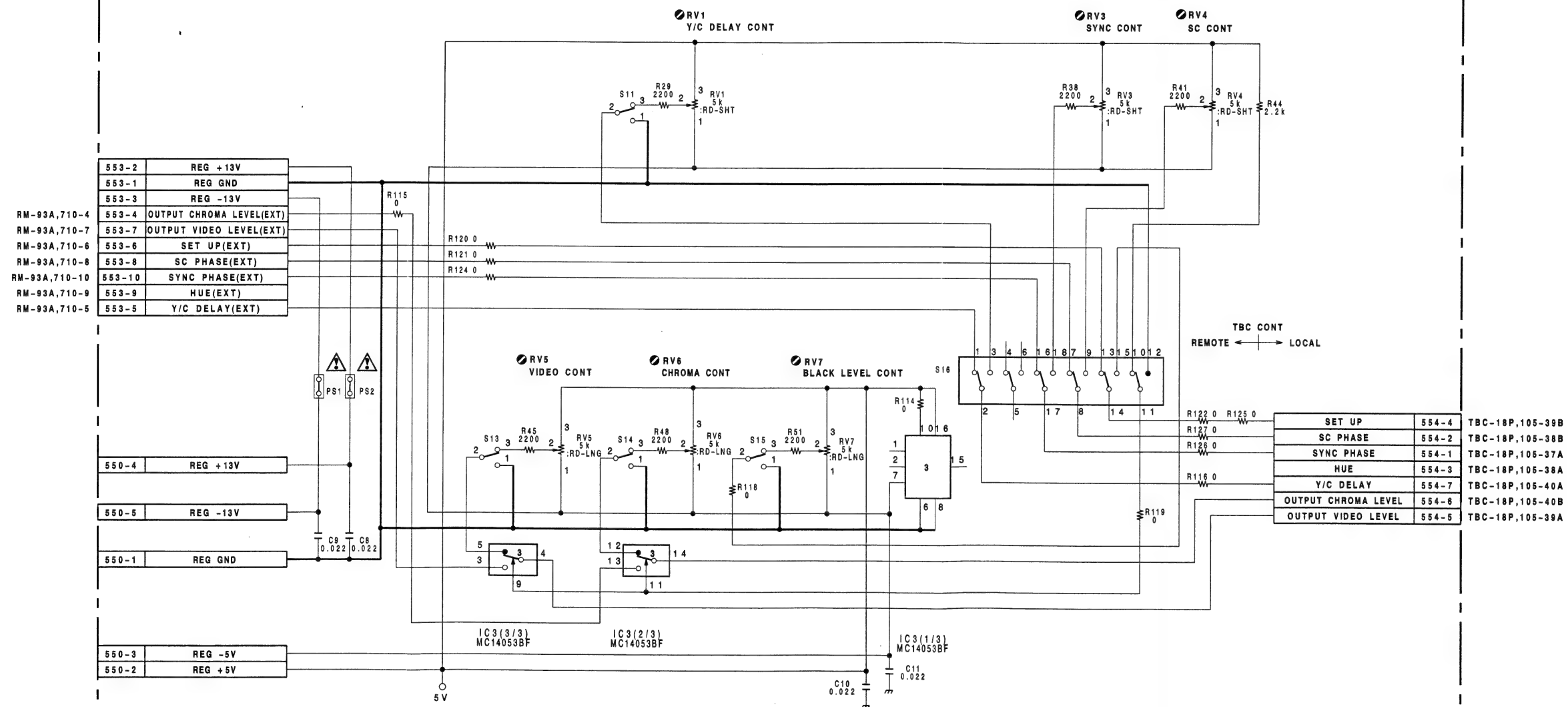
H

Serial No.(EK);14286 and higher
Serial No.(UC);10011 and higher

HC-14C(2/2) HC-14C(2/2)

HC-14C(2/2);SUB-CONTROL PANEL(TBC CONTROL)

The Δ -marked components are critical to safety.
Replace only with the same components as specified.



HC-14C BOARD (2/2)

BOARD NO.1-640-049-44
PVW-2600P (EK);#14286-
PVW-2600P (UC);#10011-

16-46(c)

Serial No.(EK);11151 to 14285
Serial No.(UC);10001 to 10010

HC-14C(1/2) HC-14C(1/2)

HC-14C(1/2);SUB-CONTROL PANEL(SWITCH)

HC-14C(1-640-049-43)

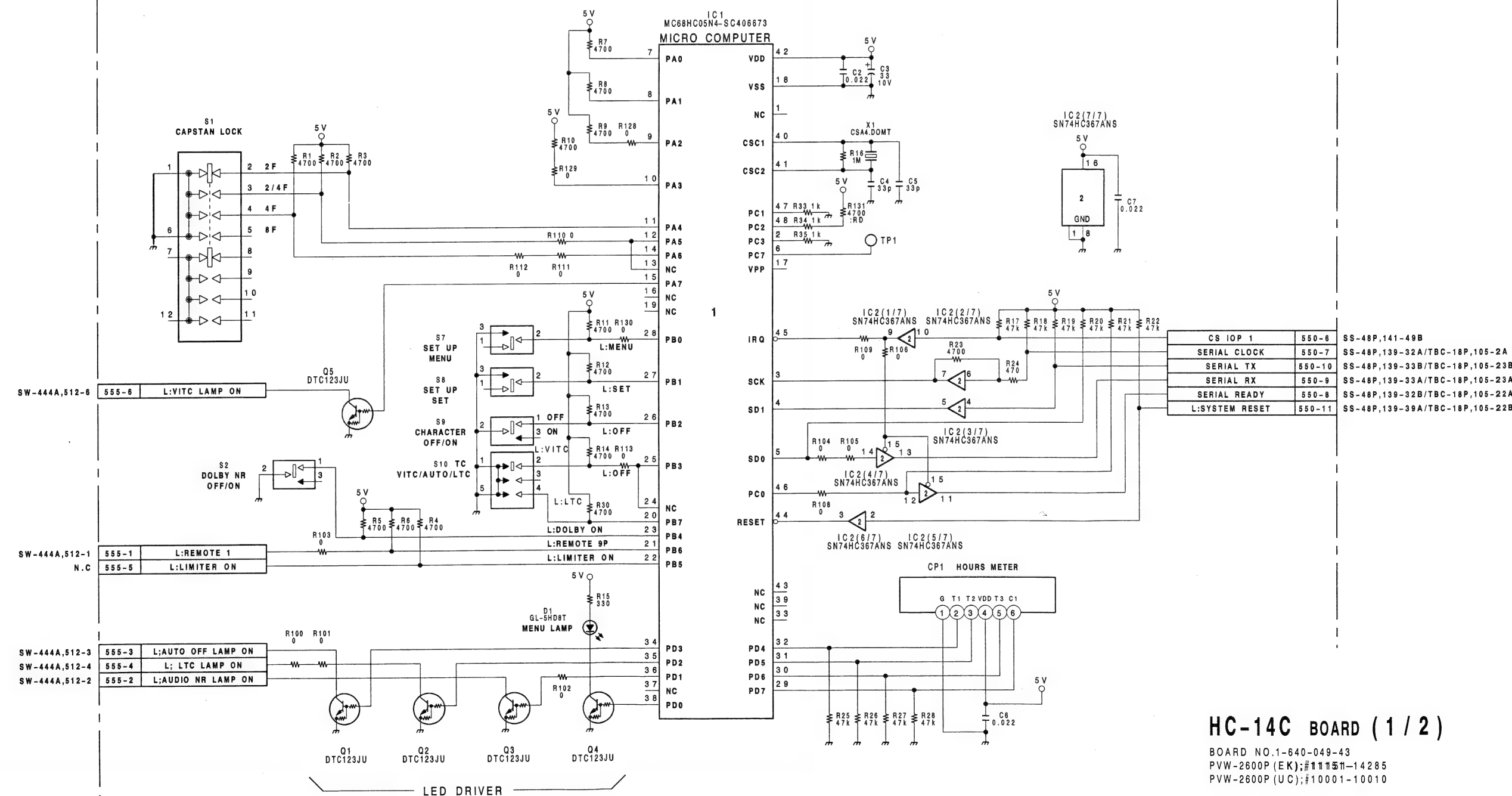
TP1 D-2

SS-48P,139-38A
SS-48P,139-39B
SS-48P,139-38B

551-1	REG GND
551-2	REG +8V
551-3	KEY OUT(-)
551-4	KEY IN-1
551-5	KEY TEST

REG GND	552-1
REG GND	552-2
REG GND	552-3
REG +8V	552-4
REG +8V	552-5
REG +8V	552-6
KEY SERIAL COMMAND	552-7
INT KEY SERIAL STATUS	552-8
L:KEY BOARD TEST	552-9
NC	552-10

KY-210A,590-7
KY-210A,590-8
KY-210A,590-9



HC-14C BOARD (1/2)

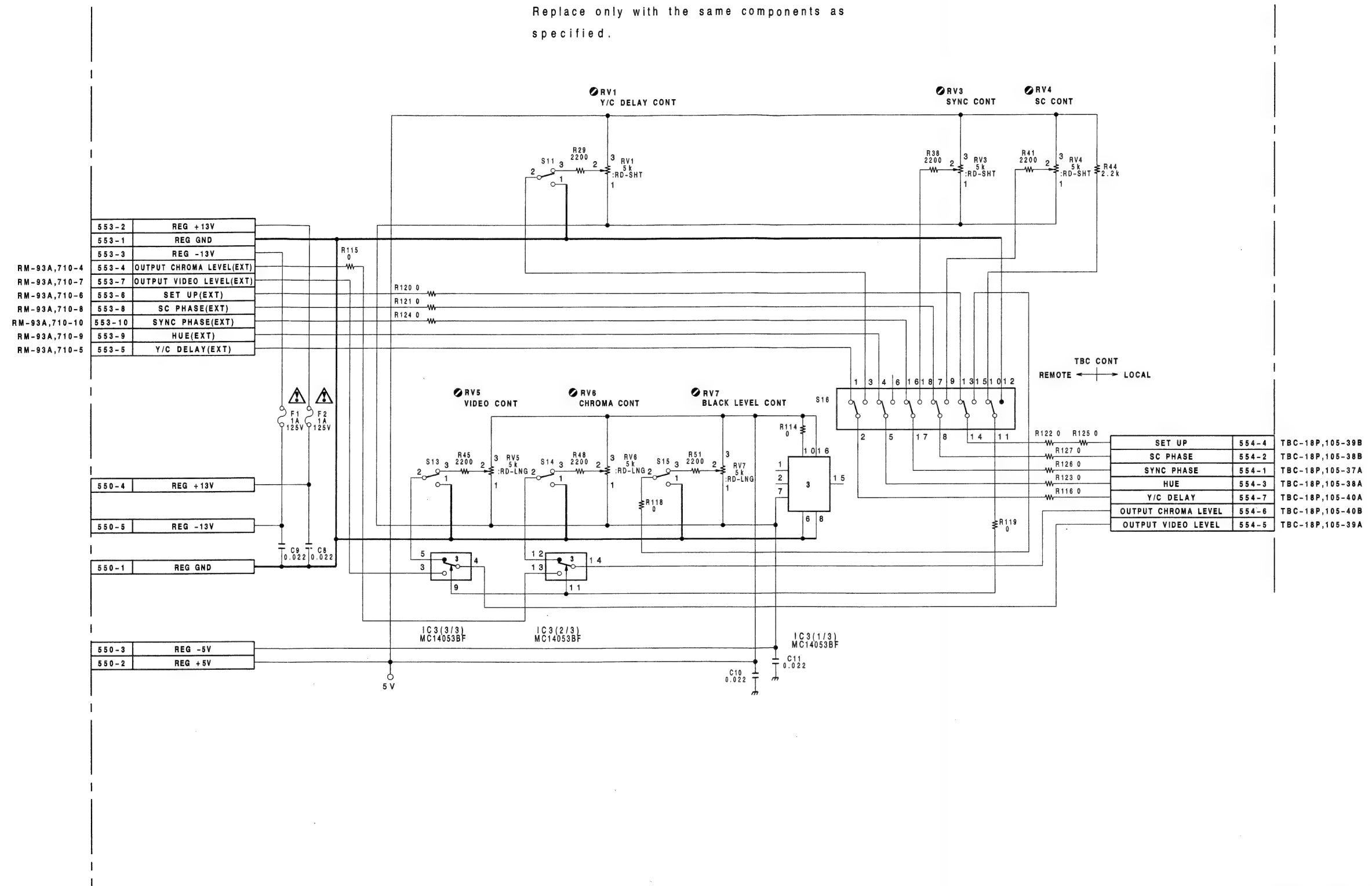
BOARD NO.1-640-049-43
PVW-2600P (EK);#11151-14285
PVW-2600P (UC);#10001-10010

Serial No.(EK);11151 to 14285
Serial No.(UC);10001 to 10010

HC-14C(2/2) HC-14C(2/2)

HC-14C(2/2);SUB-CONTROL PANEL(TBC CONTROL)

The Δ -marked components are critical to safety.
Replace only with the same components as specified.



HC-14C BOARD (2/2)
BOARD NO.1-640-049-43
PVW-2600P (EK);#11151-14285
PVW-2600P (UC);#10001-10010

Serial No.(EK);10001 to 11150

HC-14C(1/2);SUB-CONTROL PANEL(SWITCH)

HC-14C(1-640-049-41,42)

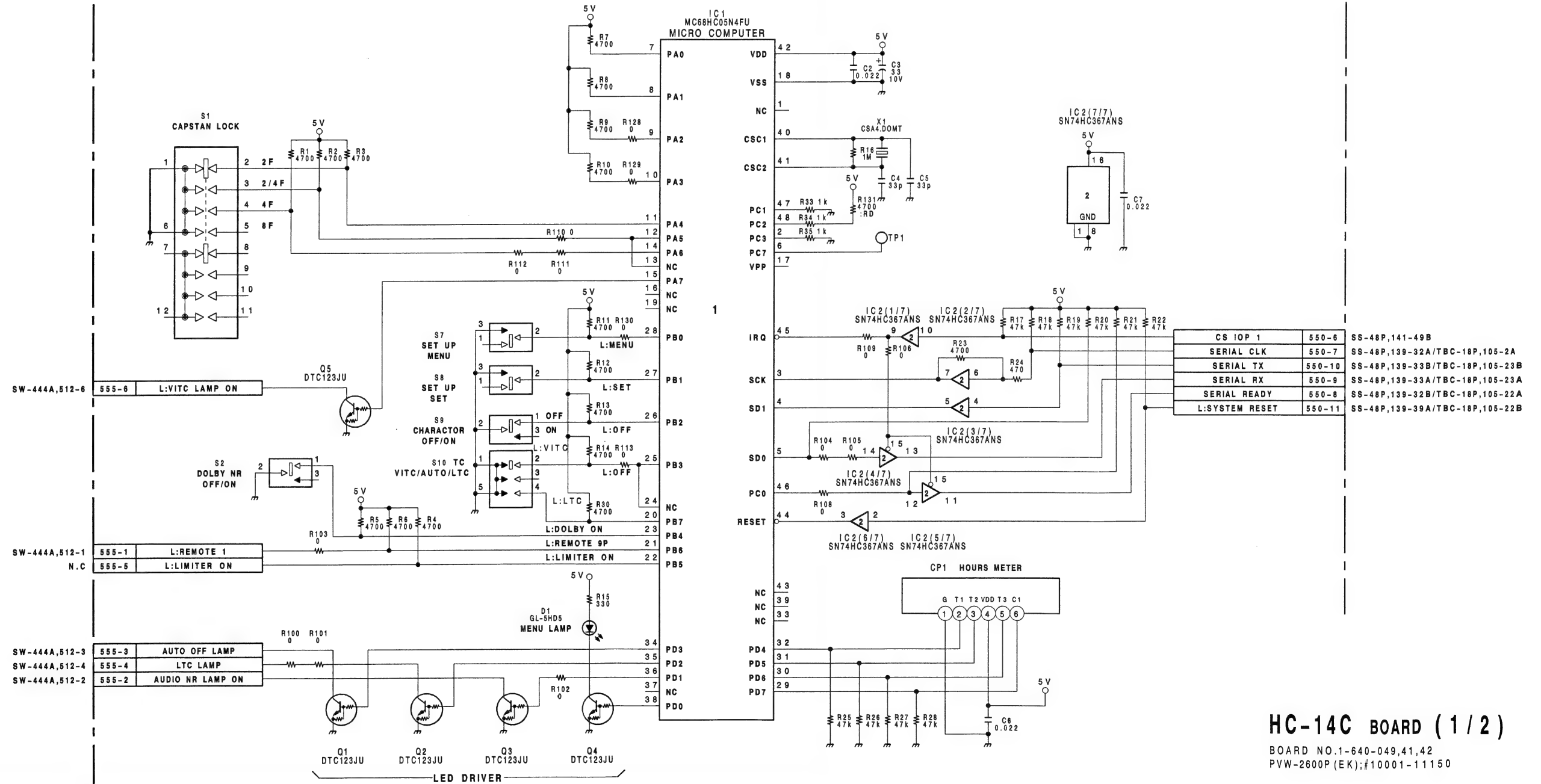
TP1 D-2

SS-48P,139-38A
SS-48P,139-39B
SS-48P,139-38B

551-1	REG GND
551-2	REG +8V
551-3	KEY OUT
551-4	KEY IN 1
551-5	KEY TEST

REG GND	552-1
REG GND	552-2
REG GND	552-3
REG +8V	552-4
REG +8V	552-5
REG +8V	552-6
KEY SERIAL COMMAND	552-7
INT KEY SERIAL STATUS	552-8
L:KEY BOARD TEST	552-9
NC	552-10

KY-210A,590-7
KY-210A,590-8
KY-210A,590-9

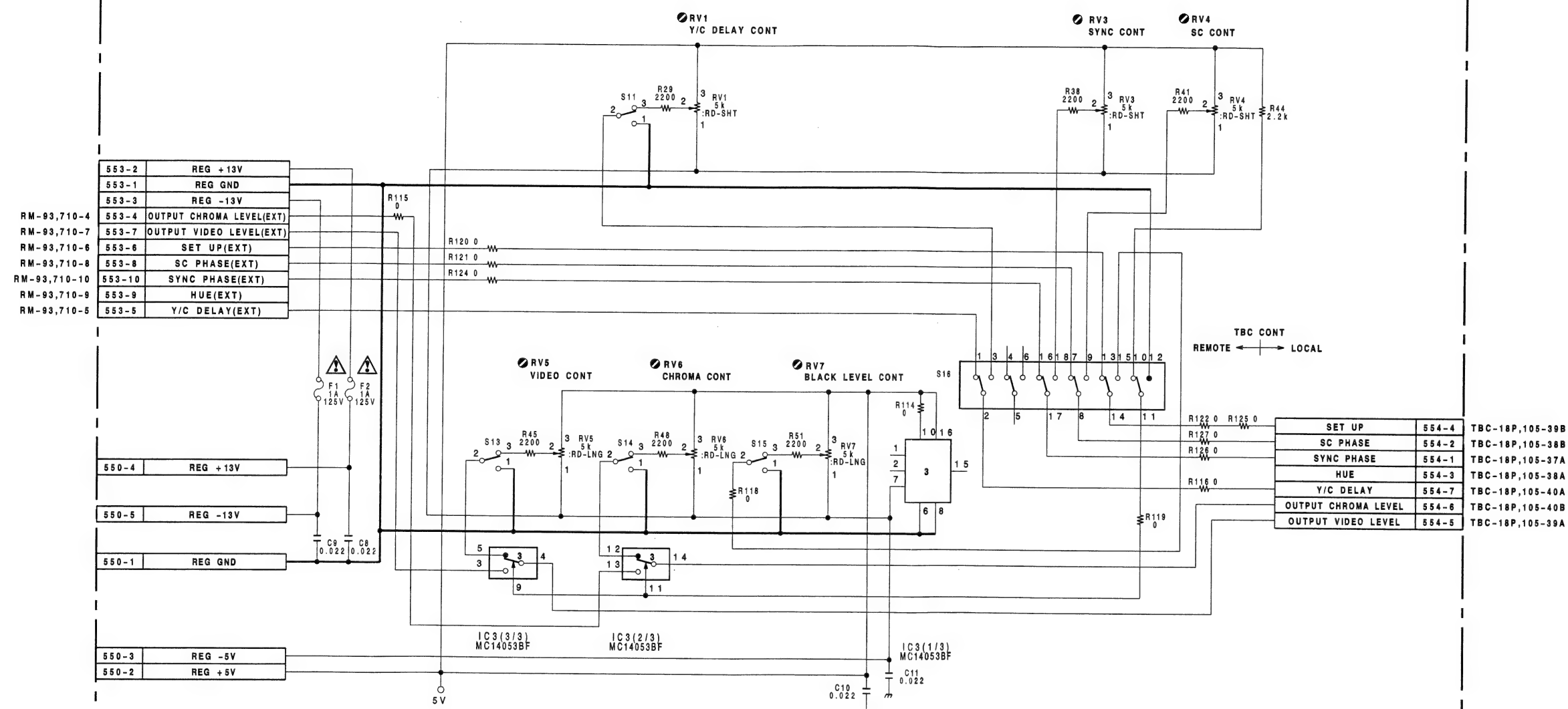


HC-14C BOARD (1/2)
BOARD NO.1-640-049,41,42
PVW-2600P(EK);#10001-11150

Serial No.(EK);10001 to 11150

HC-14C(2/2);SUB-CONTROL PANEL(TBC CONTROL)

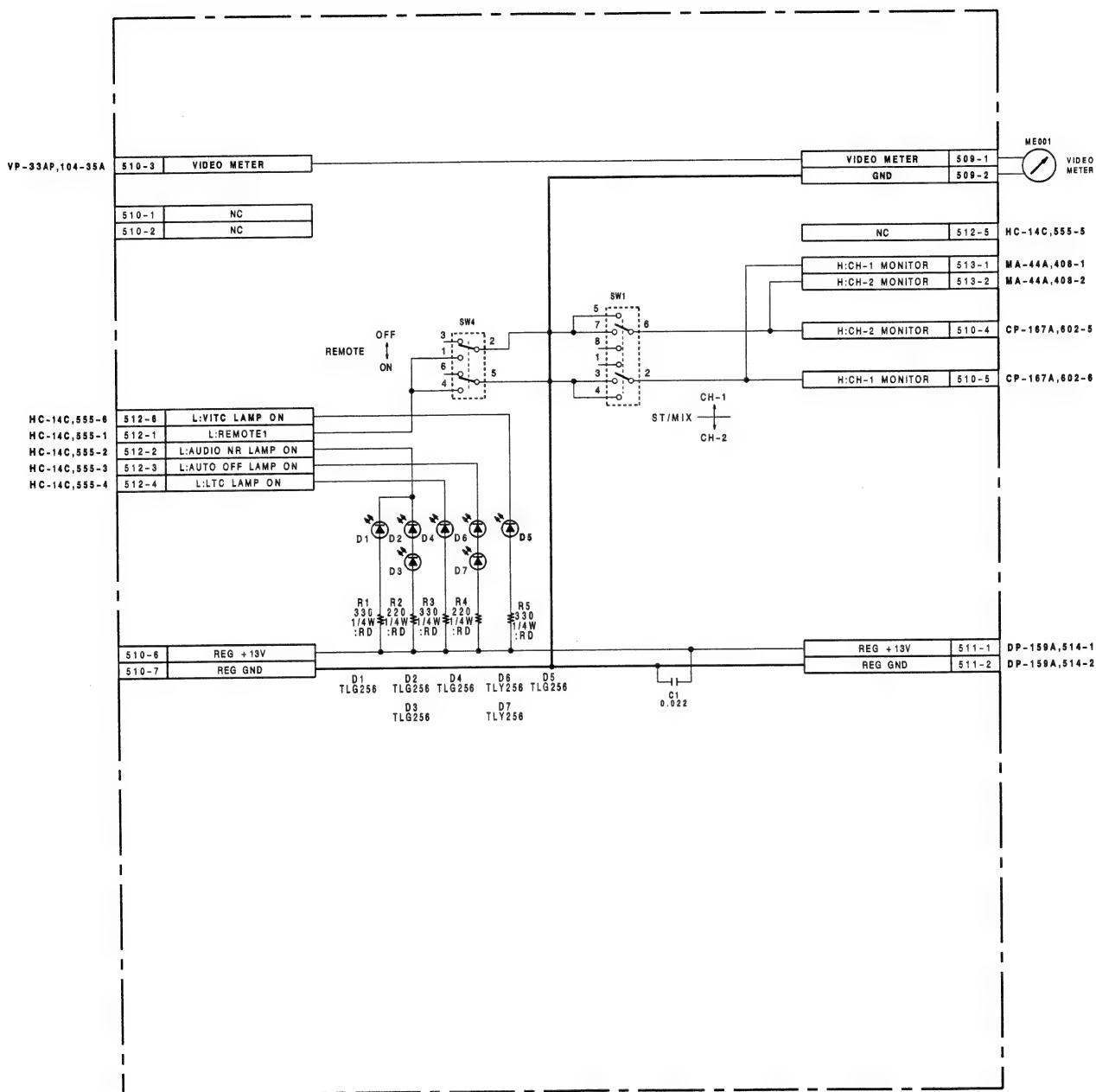
The Δ -marked components are critical to safety.
Replace only with the same components as specified.



HC-14C BOARD (2/2)

BOARD NO.1-640-049-41,42
PVW-2600P (EK);#10001-11150

SW-444A; SELECT SWITCH, INDICATOR, RF/VIDEO LEVEL METER

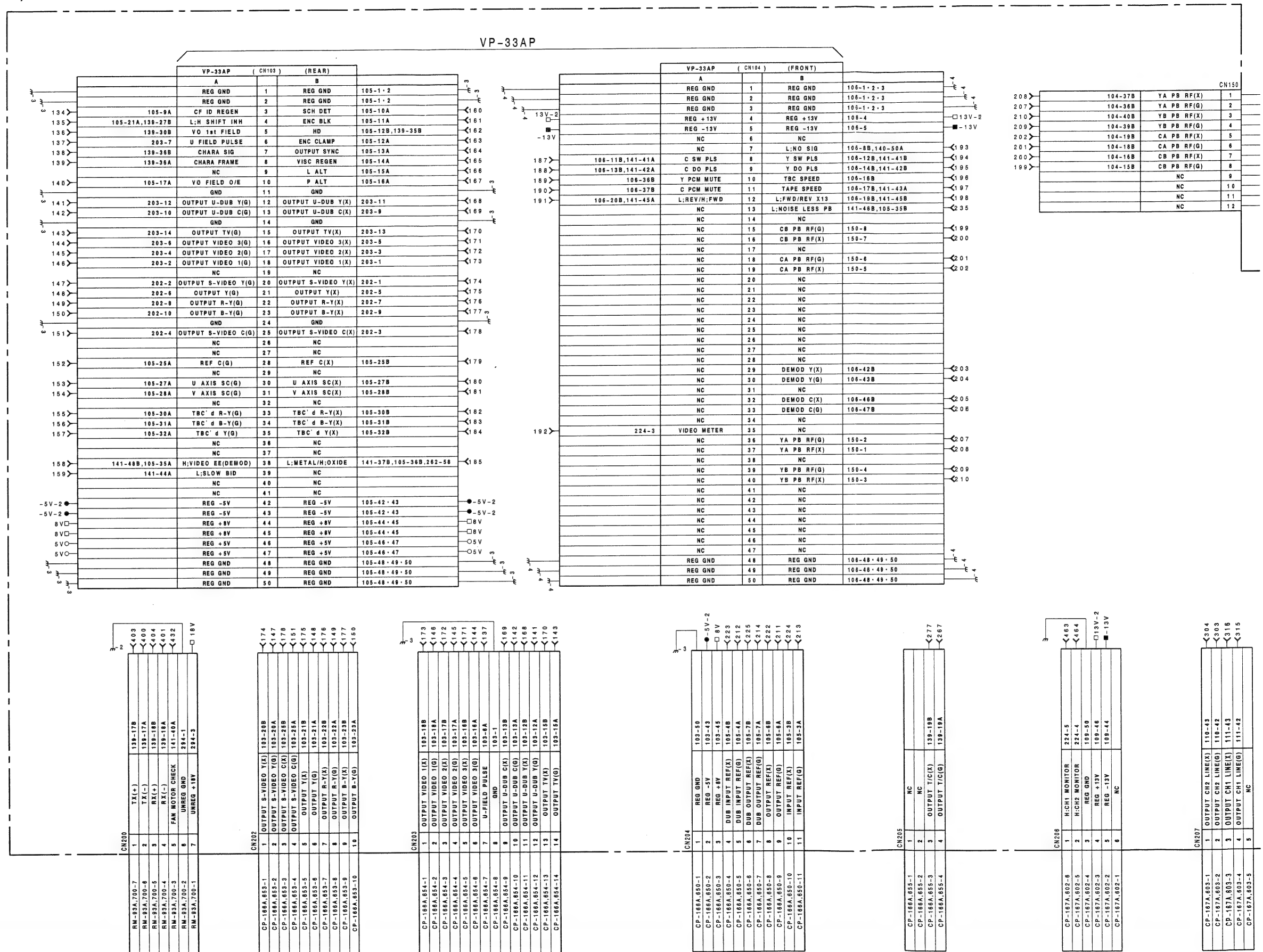


SW-444A BOARD

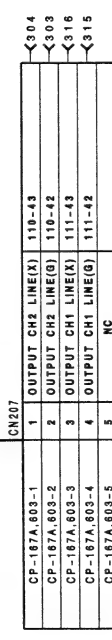
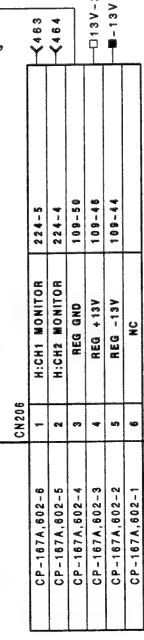
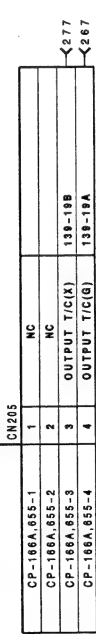
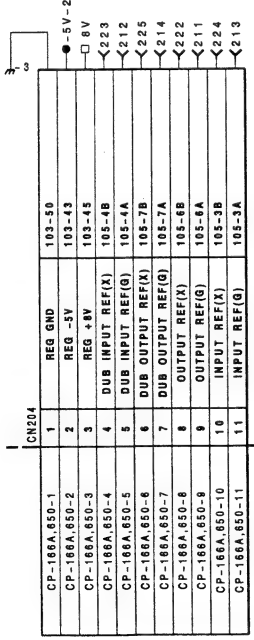
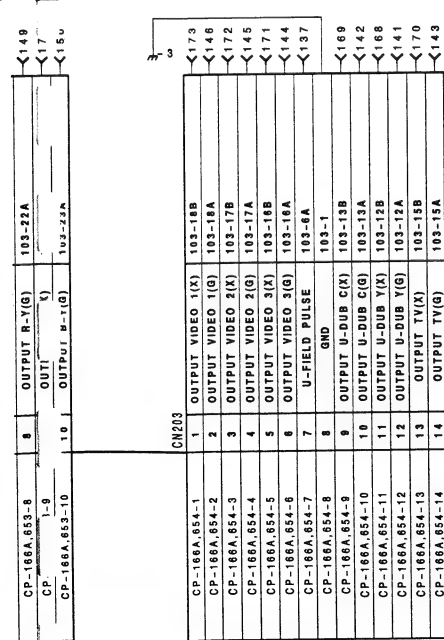
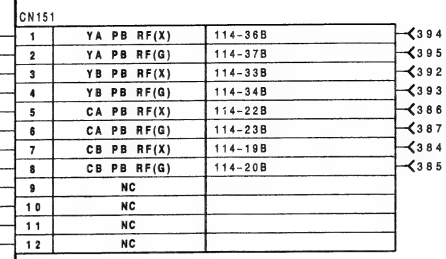
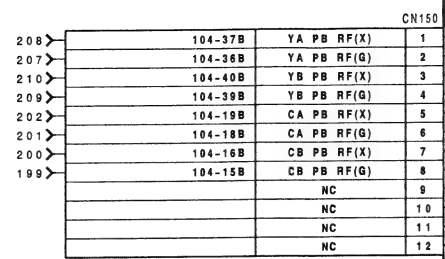
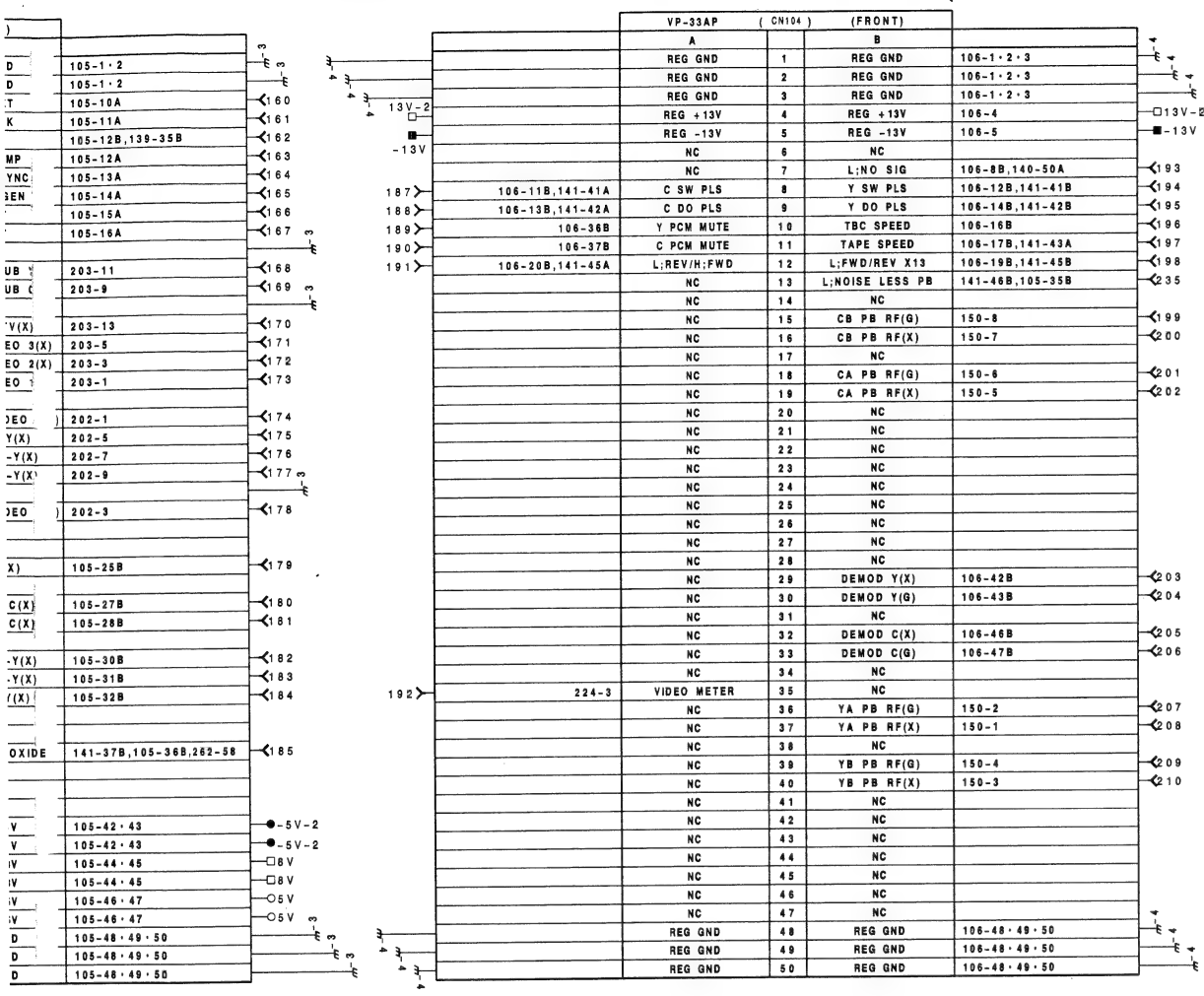
BOARD NO.1-640-043-21
 PVW-2600P (EK);#10001-
 PVW-2600P (UC);#10001-

Serial No.(EK);11681 and higher
Serial No.(UC);10001 and higher

MB-322D(1/5);MOTHER BOARD(1/5)



VP-33AP



16-48(b)

MB-322D BOARD (1/5)

BOARD NO.1-640-038-23
PVW-2600P (E.K);#11681-
PVW-2600P (U.C);#10001-

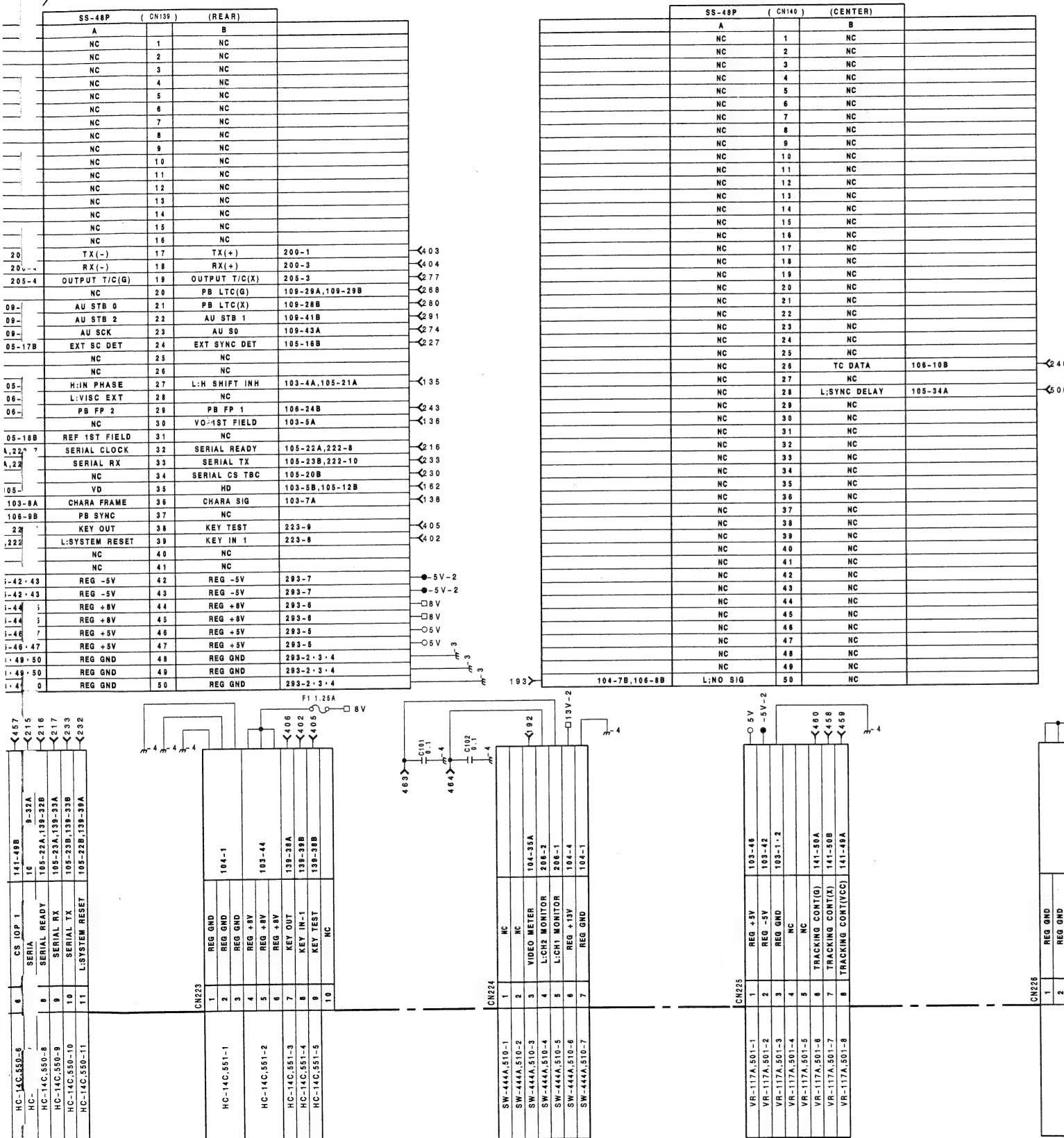
Serial No.(EK);11681 and higher
Serial No.(UC);10001 and higher

MB-322D(2/5) MB-322D(2/5)

MB-322D(2/5);MOTHER BOARD(2/5)

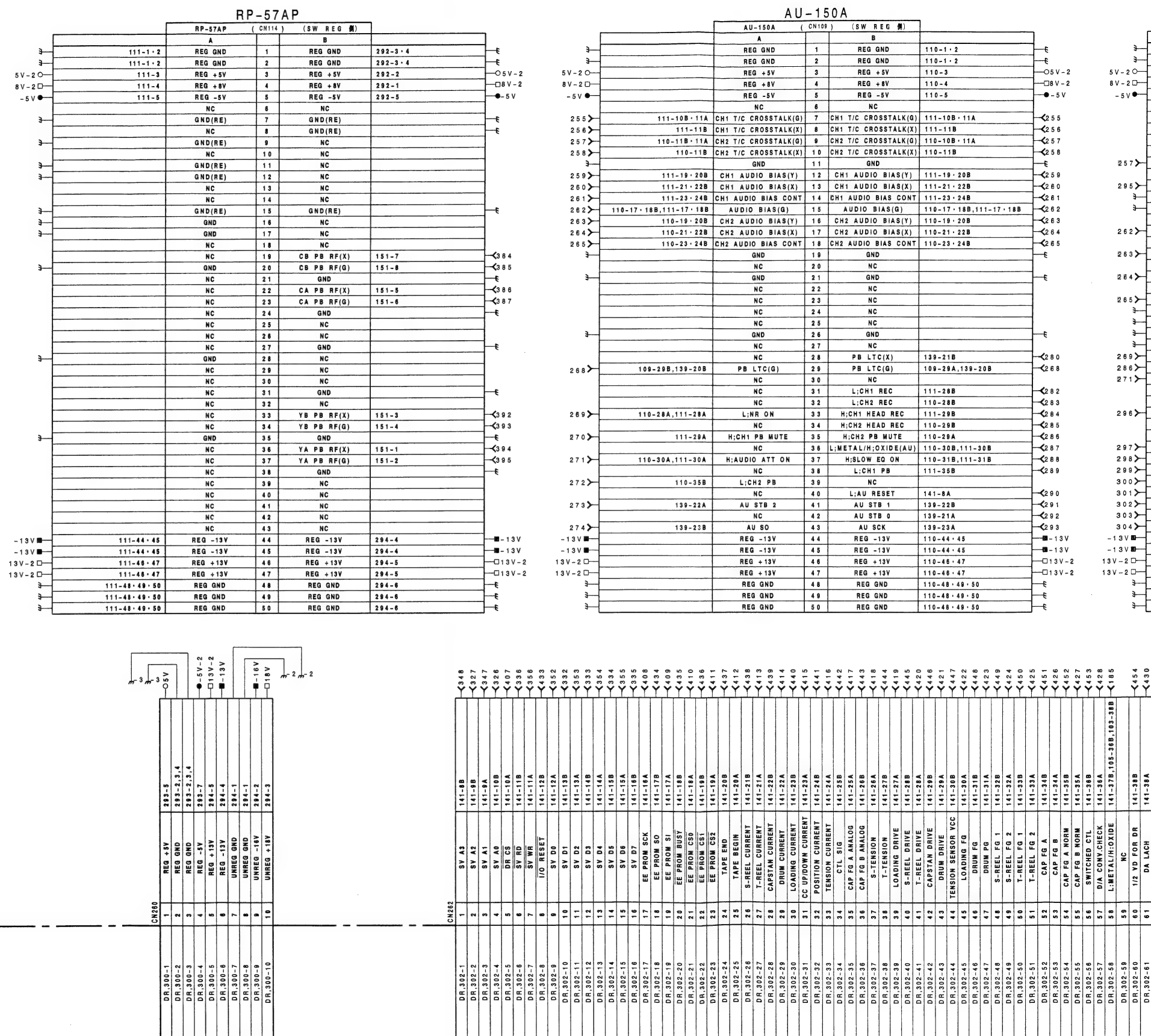


SS-48P



MB-322D BOARD (2/5)

BOARD NO.1-640-038-23
 PVW-2600P (EK);#11681-
 PVW-2600P (UC);#10001-



AU-149AP		AU-149AP (CN110) (SW REG 脚)	
		A	B
0-1	REG GND	1	REG GND
0-1	REG GND	2	REG GND
0-3	REG +5V	3	REG +5V
0-4	REG +8V	4	REG +8V
0-5	REG -5V	5	REG -5V
1-1	NC	6	NC
1-1	NC	7	NC
1-1	NC	8	NC
0-10B, 11A	NC	9	NC
0-11B	NC	10	NC
1-1	CH2 T/C CROSSTALK(G)	11	CH2 T/C CROSSTALK(X)
1-2	CH2 INSERT CROSSTALK(G)	12	CH2 INSERT CROSSTALK(X)
1-2	CH2 INSERT CROSSTALK(G)	13	CH2 INSERT CROSSTALK(X)
1-2	CH2 INSERT CROSSTALK(G)	14	CH2 INSERT CROSSTALK(X)
0-17, 18B, 111-17, 18B	GND	15	GND
0-19, 20B	NC	16	CH2 CROSSTALK
0-21, 22B	AUDIO BIAS(G)	17	AUDIO BIAS(G)
0-21, 22B	NC	18	AUDIO BIAS(G)
0-21, 22B	CH2 AUDIO BIAS(Y)	19	CH2 AUDIO BIAS(Y)
0-21, 22B	NC	20	CH2 AUDIO BIAS(Y)
0-21, 22B	CH2 AUDIO BIAS(X)	21	CH2 AUDIO BIAS(X)
0-21, 22B	NC	22	CH2 AUDIO BIAS(X)
0-21, 22B	CH2 AUDIO BIAS CONT	23	CH2 AUDIO BIAS CONT
0-21, 22B	GND	24	CH2 AUDIO BIAS CONT
0-21, 22B	GND	25	GND
0-21, 22B	GND	26	CH1 CROSSTALK
0-21, 22B	GND	27	GND
0-21, 22B	H:NR ON	28	L:CH2 REC
0-21, 22B	H:CH2 PB MUTE	29	H:CH2 HEAD REC
0-21, 22B	H:AUDIO ATT ON	30	L:METAL/H:OXIDE(AU)
0-21, 22B	NC	31	H:SLOW EQ ON
0-21, 22B	NC	32	CH2 PB/EE(G)
0-21, 22B	CH2 PB/EE(G)	33	CH2 PB/EE(X)
0-21, 22B	NC	34	CH2 PB/EE(G)
0-21, 22B	NC	35	L:CH2 PB
0-21, 22B	CH2 PB(G)	36	CH2 PB(G)
0-21, 22B	CH2 PB(X)	37	CH2 PB(X)
0-21, 22B	CH1 INSERT CROSSTALK(G)	38	CH1 INSERT CROSSTALK(G)
0-21, 22B	CH1 INSERT CROSSTALK(X)	39	CH1 INSERT CROSSTALK(X)
0-21, 22B	CH2 HP METER(G)	40	CH2 HP METER(G)
0-21, 22B	CH2 HP METER(X)	41	CH2 HP METER(X)
0-21, 22B	OUTPUT CH2 LINE(G)	42	OUTPUT CH2 LINE(G)
0-21, 22B	OUTPUT CH2 LINE(X)	43	OUTPUT CH2 LINE(X)
0-21, 22B	REG -13V	44	REG -13V
0-21, 22B	REG -13V	45	REG -13V
0-21, 22B	REG +13V	46	REG +13V
0-21, 22B	REG +13V	47	REG +13V
0-21, 22B	REG GND	48	REG GND
0-21, 22B	REG GND	49	REG GND
0-21, 22B	REG GND	50	REG GND

AU-148AP		AU-148AP (CN111) (SW REG 脚)	
		A	B
110-1, 2	REG GND	1	REG GND
110-1, 2	REG GND	2	REG GND
110-3	REG +5V	3	REG +5V
110-4	REG +8V	4	REG +8V
110-5	REG -5V	5	REG -5V
110-6	NC	6	NC
110-7	NC	7	NC
110-8	NC	8	NC
110-9	NC	9	NC
110-10	CH1 T/C CROSSTALK(G)	10	CH1 T/C CROSSTALK(X)
110-11	CH1 INSERT CROSSTALK(G)	11	CH1 INSERT CROSSTALK(X)
110-12	CH1 INSERT CROSSTALK(G)	12	CH1 INSERT CROSSTALK(X)
110-13	CH1 INSERT CROSSTALK(G)	13	CH1 INSERT CROSSTALK(X)
110-14	GND	14	CH1 INSERT CROSSTALK(X)
110-15	GND	15	GND
110-16	NC	16	CH1 CROSSTALK
110-17, 18B	AUDIO BIAS(G)	17	AUDIO BIAS(G)
110-19	NC	18	AUDIO BIAS(G)
110-20	CH1 AUDIO BIAS(Y)	19	CH1 AUDIO BIAS(Y)
110-21	NC	20	CH1 AUDIO BIAS(Y)
110-22	CH1 AUDIO BIAS(X)	21	CH1 AUDIO BIAS(X)
110-23	NC	22	CH1 AUDIO BIAS(X)
110-24	CH1 AUDIO BIAS CONT	23	CH1 AUDIO BIAS CONT
110-25	GND	24	CH1 AUDIO BIAS CONT
110-26	GND	25	GND
110-27	GND	26	CH2 CROSSTALK
110-28	GND	27	GND
110-29	H:NR ON	28	L:CH1 REC
110-30	H:CH1 PB MUTE	29	H:CH1 HEAD REC
110-31	H:AUDIO ATT ON	30	L:METAL/H:OXIDE(AU)
110-32	NC	31	H:SLOW EQ ON
110-33	NC	32	CH1 PB/EE(G)
110-34	CH1 PB/EE(G)	33	CH1 PB/EE(X)
110-35	NC	34	CH1 PB/EE(G)
110-36	NC	35	L:CH1 PB
110-37	CH1 PB(G)	36	CH1 PB(G)
110-38	CH1 PB(X)	37	CH1 PB(X)
110-39	CH2 INSERT CROSSTALK(G)	38	CH2 INSERT CROSSTALK(G)
110-40	CH2 INSERT CROSSTALK(X)	39	CH2 INSERT CROSSTALK(X)
110-41	CH1 HP METER(G)	40	CH1 HP METER(G)
110-42	CH1 HP METER(X)	41	CH1 HP METER(X)
110-43	OUTPUT CH1 LINE(G)	42	OUTPUT CH1 LINE(G)
110-44	OUTPUT CH1 LINE(X)	43	OUTPUT CH1 LINE(X)
110-45	REG -13V	44	REG -13V
110-46	REG -13V	45	REG -13V
110-47	REG +13V	46	REG +13V
110-48	REG +13V	47	REG +13V
110-49	REG GND	48	REG GND
110-50	REG GND	49	REG GND
110-51	REG GND	50	REG GND

CN292		CN293		CN294	
1	2	1	2	1	2
SW REG 2-1	REG +8V	SW REG 3-7	L:REG TEMP	SW REG 4-1	UNREG GND
SW REG 2-2	REG +5V	SW REG 3-4	REG GND	SW REG 4-2	UNREG -13V
SW REG 2-3	REG GND	SW REG 3-5	REG GND	SW REG 4-3	UNREG +13V
SW REG 2-4	REG GND	SW REG 3-6	REG GND	SW REG 4-4	REG -13V
SW REG 2-5	REG -5V	SW REG 3-2	REG +5V	SW REG 4-5	REG +13V
		SW REG 3-1	REG +8V		
		SW REG 3-3	REG -5V		

CN292		CN293		CN294	
1	2	1	2	1	2
SW REG 2-1	REG +8V	SW REG 3-7	L:REG TEMP	SW REG 4-1	UNREG GND
SW REG 2-2	REG +5V	SW REG 3-4	REG GND	SW REG 4-2	UNREG -13V
SW REG 2-3	REG GND	SW REG 3-5	REG GND	SW REG 4-3	UNREG +13V
SW REG 2-4	REG GND	SW REG 3-6	REG GND	SW REG 4-4	REG -13V
SW REG 2-5	REG -5V	SW REG 3-2	REG +5V	SW REG 4-5	REG +13V
		SW REG 3-1	REG +8V		
		SW REG 3-3	REG -5V		

CN292		CN293		CN294	
1	2	1	2	1	2
SW REG 2-1	REG +8V	SW REG 3-7	L:REG TEMP	SW REG 4-1	UNREG GND
SW REG 2-2	REG +5V	SW REG 3-4	REG GND	SW REG 4-2	UNREG -13V
SW REG 2-3	REG GND	SW REG 3-5	REG GND	SW REG 4-3	UNREG +13V
SW REG 2-4	REG GND	SW REG 3-6	REG GND	SW REG 4-4	REG -13V
SW REG 2-5	REG -5V	SW REG 3-2	REG +5V	SW REG 4-5	REG +13V
		SW REG 3-1	REG +8V		
		SW REG 3-3	REG -5V		

CN292		CN293		CN294	
1	2	1	2	1	2
SW REG 2-1	REG +8V	SW REG 3-7	L:REG TEMP	SW REG 4-1	UNREG GND
SW REG 2-2	REG +5V	SW REG 3-4	REG GND	SW REG 4-2	UNREG -13V
SW REG 2-3	REG GND	SW REG 3-5	REG GND	SW REG 4-3	UNREG +13V
SW REG 2-4	REG GND	SW REG 3-6	REG GND	SW REG 4-4	REG -13V
SW REG 2-5	REG -5V	SW REG 3-2	REG +5V	SW REG 4-5	REG +13V
		SW REG 3-1	REG +8V		
		SW REG 3-3	REG -5V		

MB-322D BOARD (3/5)

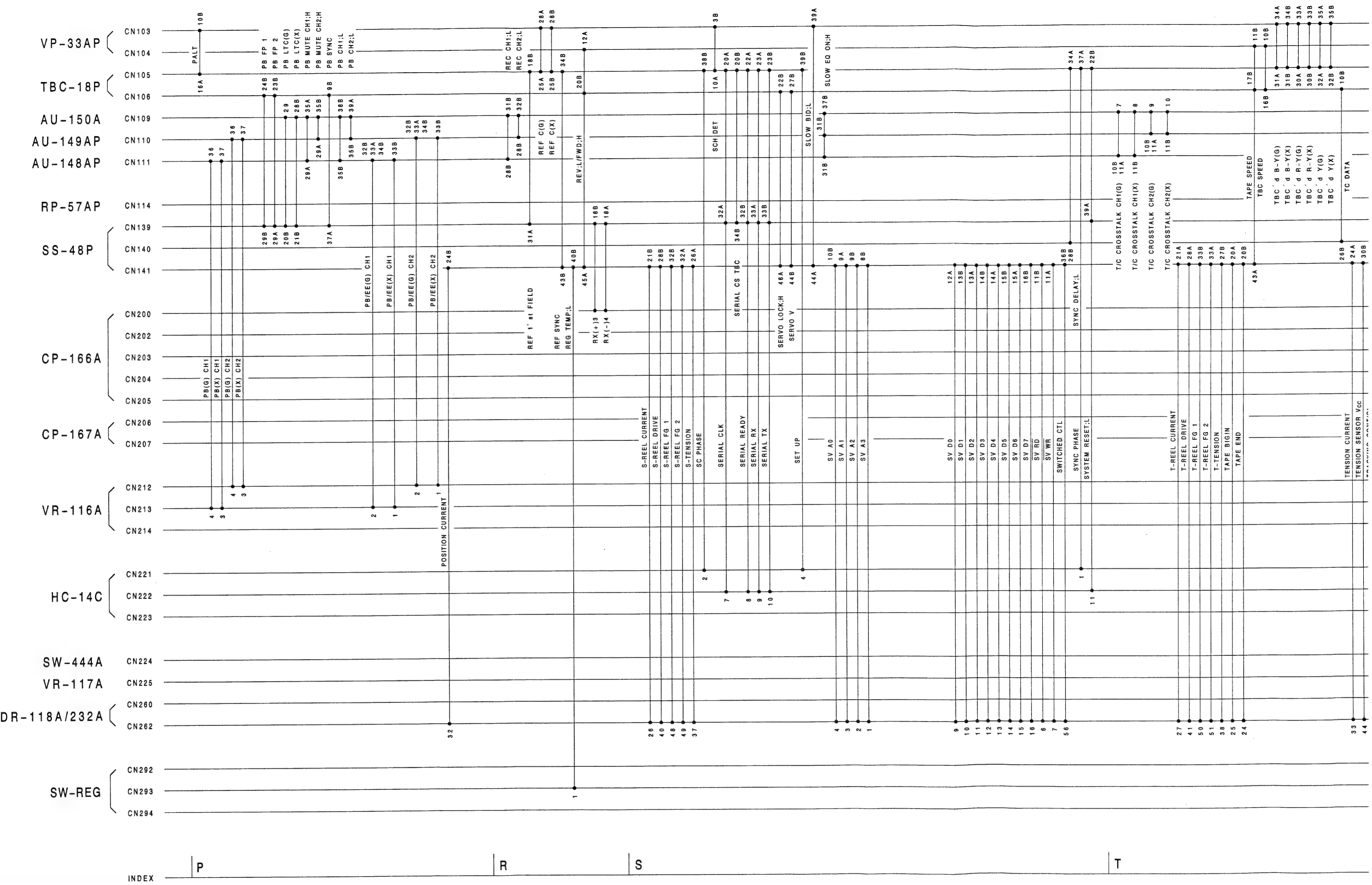
BOARD NO.1-640-038-23
 PVW-2600P (EK);#11681-
 PVW-2600P (UC);#10001-

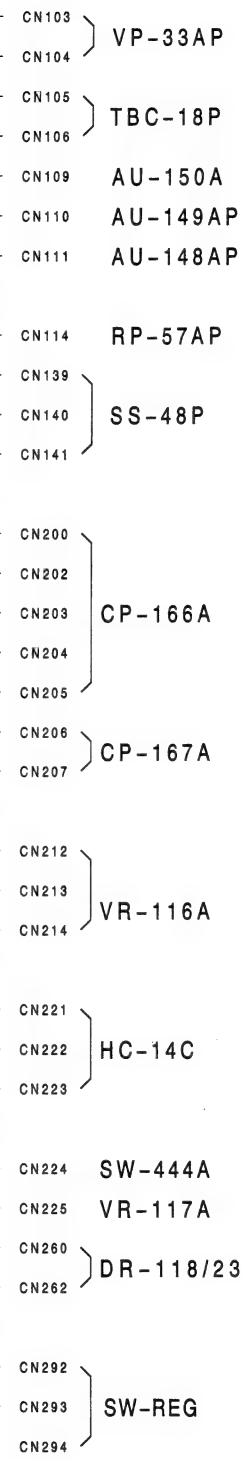


16-51(b)

Serial No.(EK);11681 and higher
Serial No.(UC);10001 and higher

MB-322D(5/5);MOTHER BOARD





INDEX

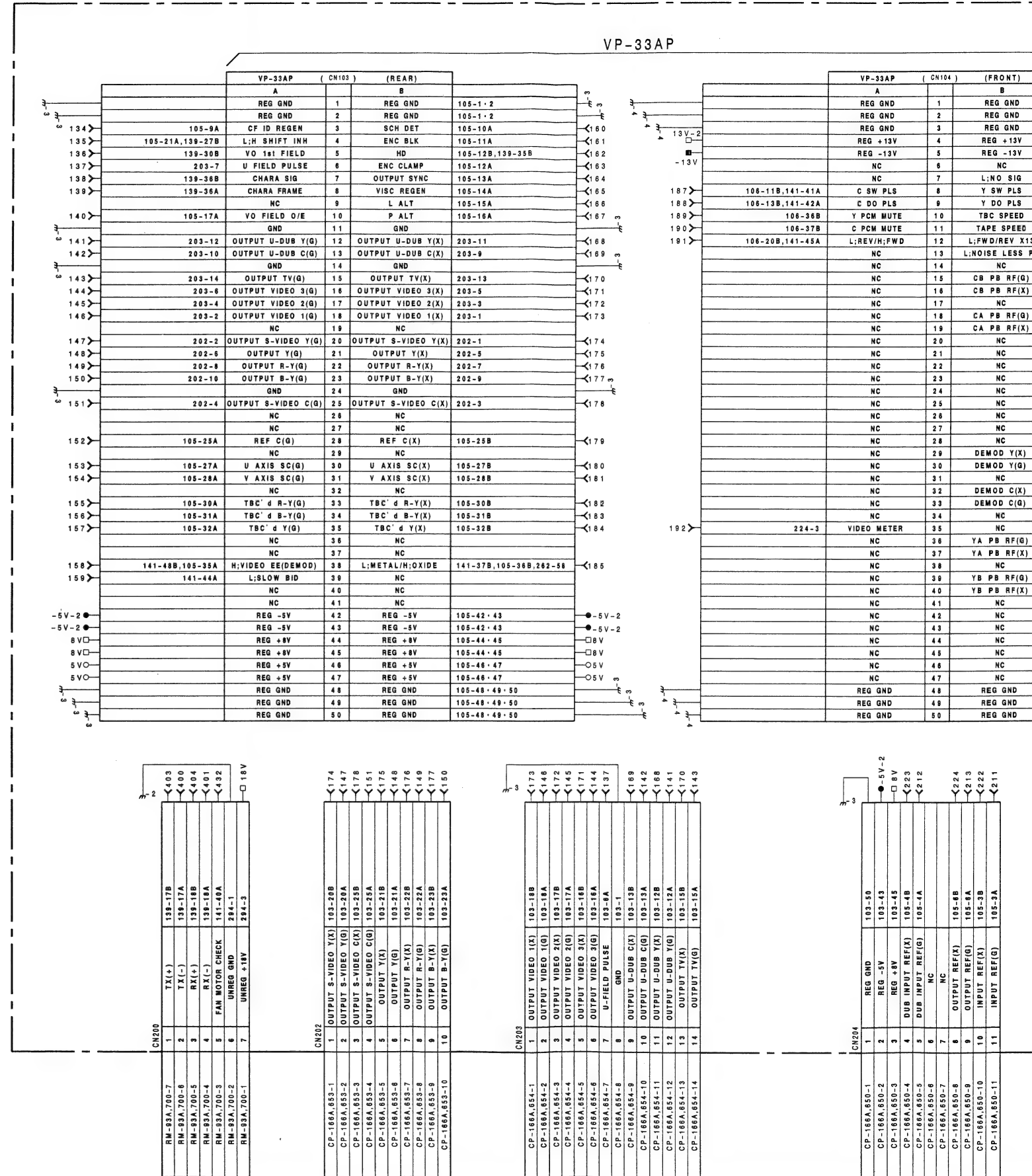
16-52(b)

BOARD NO.1-640-038-23
PVW-2600P (EK);#11681-
PVW-2600P (UC);#10001-

0

Serial No.(EK);10001 to 11680

MB-322A(1/5);MOTHER BOARD(1/5)



16-48(a)

A

B

C

D

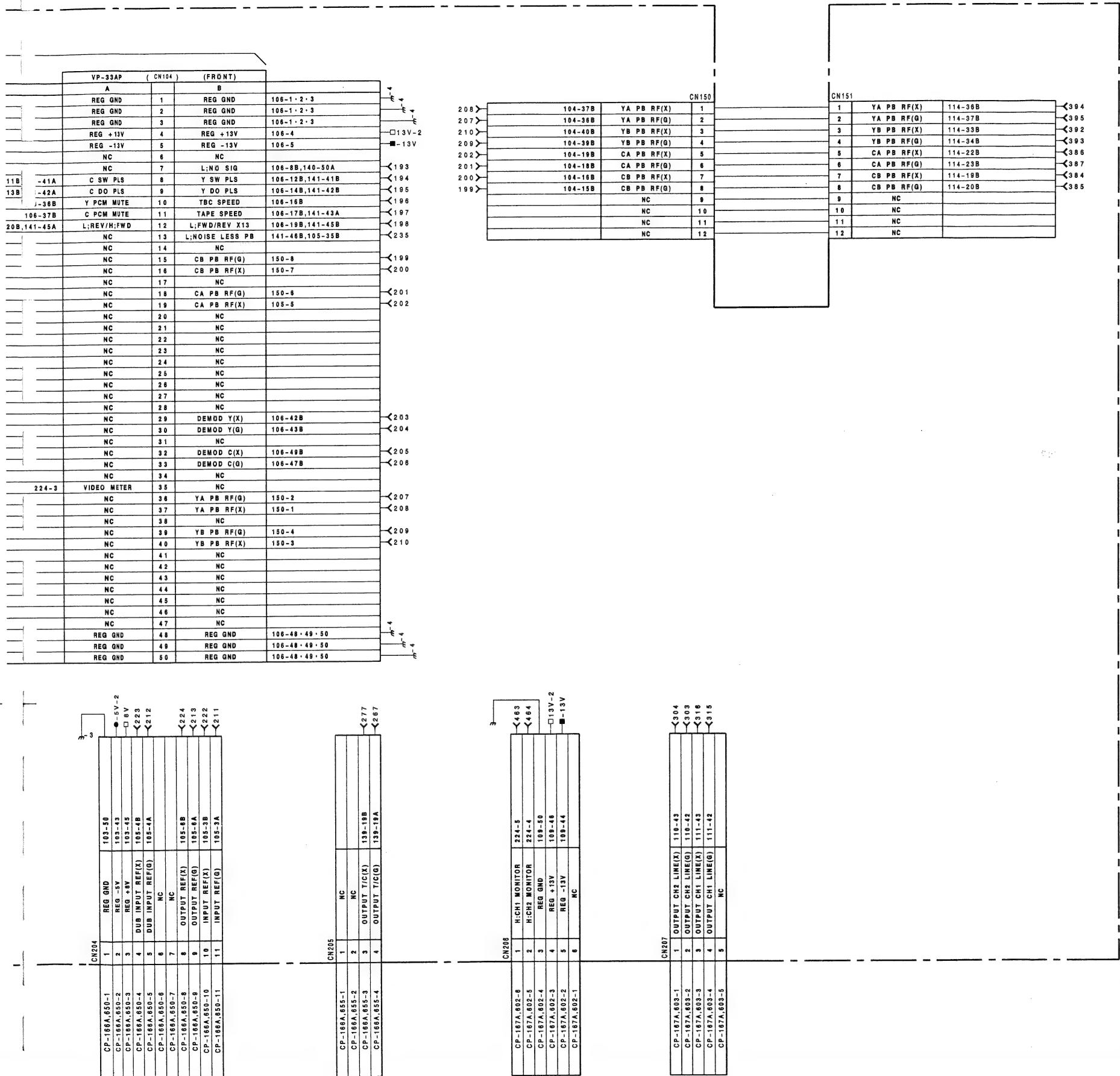
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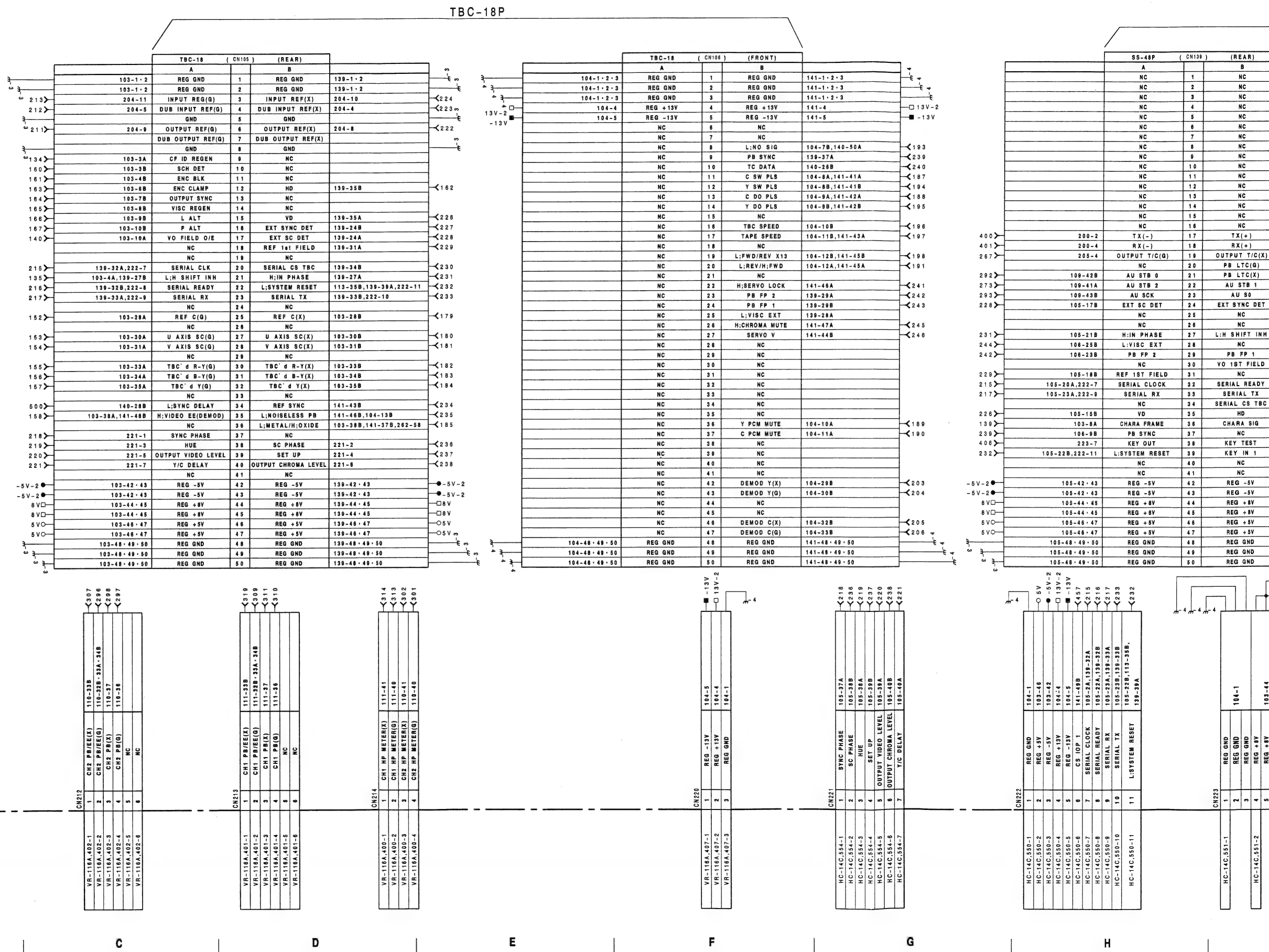
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H

I



MB-322A BOARD (1 / 5)
BOARD NO.1-640-038-21,22
PVW-2600P (EK);#10001-11680



SS-48P

SS-48P (CN138) (REAR)			
A	B		
NC	1	NC	
NC	2	NC	
NC	3	NC	
NC	4	NC	
NC	5	NC	
NC	6	NC	
NC	7	NC	
NC	8	NC	
NC	9	NC	
NC	10	NC	
NC	11	NC	
NC	12	NC	
NC	13	NC	
NC	14	NC	
NC	15	NC	
NC	16	NC	
TX(-)	17	TX(+)	200-1
RX(-)	18	RX(+)	200-3
OUTPUT T/C(G)	19	OUTPUT T/C(X)	205-3
NC	20	PB LTC(G)	109-29A,109-29B
U STB 0	21	PB LTC(X)	109-28B
U STB 2	22	AU STB 1	105-41B
AU SCK	23	AU S0	109-43A
EXT SC DET	24	EXT SYNC DET	105-16B
NC	25	NC	
NC	26	NC	
N PHASE	27	L:H SHIFT INH	103-4A,105-21A
ISC EXT	28	NC	
PB FP 2	29	PB FP 1	106-24B
NC	30	VO 1ST FIELD	103-5A
1ST FIELD	31	NC	
IAL CLOCK	32	SERIAL READY	105-22A,222-8
IAL RX	33	SERIAL TX	105-23B,222-10
NC	34	SERIAL CS TBC	105-20B
VD	35	HD	103-5B,105-12B
CHARA FRAME	36	CHARA SIG	103-7A
B SYNC	37	NC	
KEY OUT	38	KEY TEST	223-9
ITEM RESET	39	KEY IN 1	223-8
NC	40	NC	
NC	41	NC	
REG -5V	42	REG -5V	293-7
REG -5V	43	REG -5V	293-8
REG +8V	44	REG +8V	293-6
REG +8V	45	REG +8V	293-6
REG +5V	46	REG +5V	293-5
REG +5V	47	REG +5V	293-5
REG GND	48	REG GND	293-2,3,4
REG GND	49	REG GND	293-2,3,4
REG GND	50	REG GND	293-2,3,4

SS-48P (CN140) (CENTER)			
A	B		
NC	1	NC	
NC	2	NC	
NC	3	NC	
NC	4	NC	
NC	5	NC	
NC	6	NC	
NC	7	NC	
NC	8	NC	
NC	9	NC	
NC	10	NC	
NC	11	NC	
NC	12	NC	
NC	13	NC	
NC	14	NC	
NC	15	NC	
NC	16	NC	
NC	17	NC	
NC	18	NC	
NC	19	NC	
NC	20	NC	
NC	21	NC	
NC	22	NC	
NC	23	NC	
NC	24	NC	
NC	25	NC	
NC	26	TC DATA	106-10B
NC	27	NC	
NC	28	L:SYNC DELAY	105-34A
NC	29	NC	
NC	30	NC	
NC	31	NC	
NC	32	NC	
NC	33	NC	
NC	34	NC	
NC	35	NC	
NC	36	NC	
NC	37	NC	
NC	38	NC	
NC	39	NC	
NC	40	NC	
NC	41	NC	
NC	42	NC	
NC	43	NC	
NC	44	NC	
NC	45	NC	
NC	46	NC	
NC	47	NC	
NC	48	NC	
NC	49	NC	
104-7B,106-8B	L:NO SIG	50	NC

SS-48P (CN141) (FRONT)			
A	B		
106-1,2,3	REG GND	1	REG GND
106-1,2,3	REG GND	2	REG GND
106-1,2,3	REG GND	3	REG GND
106-4	REG +13V	4	REG +13V
106-5	REG -13V	5	REG -13V
NC	6	NC	
NC	7	NC	
109-40B	L:AU RESET	8	SV A3
262-3	SV A1	9	SV A2
262-5	DR CS	10	SV A0
262-7	SV WR	11	SV RD
262-9	SV D0	12	I/O RESET
262-11	SV D2	13	SV D1
262-13	SV D4	14	SV D3
262-15	SV D6	15	SV D5
262-17	EE PROM SCK	16	SV D7
262-19	EE PROM S1	17	EE PROM S0
262-21	EE PROM CS0	18	EE PROM BUSY
262-23	EE PROM CS2	19	EE PROM CS1
262-25	TAPE BIGIN	20	TAPE END
262-27	T-REEL CURRENT	21	S-REEL CURRENT
262-29	DRUM CURRENT	22	CAPSTAN CURRENT
262-31	CC UP/DOWN CURRENT	23	LOADING CURRENT
262-33	TENSION CURRENT	24	POSITION CURRENT
262-35	CAP FG A ANALOG	25	CTL SIG
262-37	S-TENSION	26	CAP FG B ANALOG
262-39	LOADING DRIVE	27	T-TENSION
262-41	T-REEL DRIVE	28	S-REEL DRIVE
262-43	DRUM DRIVE	29	CAPSTAN DRIVE
262-45	LOADING FG	30	TENSION SENSOR VCC
262-47	DRUM FG	31	DRUM FG
262-49	S-REEL FG 2	32	S-REEL FG 1
262-51	T-REEL FG 2	33	T-REEL FG 1
262-53	CAP FG B	34	CAP FG A
262-55	CAP FG B NORM	35	CAP FG A NORM
262-57	PWM FOR 12V	36	SWITCHED CTL
NC	37	L:METAL/H:OXIDE	103-38B,105-38B,262-58
262-61	DA LACH	38	1/2 VD FOR DR
NC	39	NC	
200-5	FAN MOTOR CHECK	40	L:REG TEMP
104-8A,106-11B	C SW PLS	41	Y SW PLS
104-9A,106-13B	C DO PLS	42	Y DO PLS
104-11B,106-17B	TAPE SPEED	43	REF SYNC
103-39A	L:SLOW BID	44	SERVO Y
104-12A,106-20B	L:REV/H:FWD	45	L:FWD/REVX13(B)
106-22B	H:SERVO LOCK	46	L:NOISELESS PB
106-28B	H:CHROMA MUTE	47	NC
NC	48	H:VIDEO EE(DEMOD)	103-38A,105-35A
225-8	TRACKING CONT(VCC)	49	CS TIOP 1
225-6	TRACKING CONT(G)	50	TRACKING CONT(X)

HC-14C,550-9	9	SERIAL RX	105-29A,109-33A
HC-14C	10	SERIAL TX	105-29B,109-33B
HC-14C,550-11	11	L:SYSTEM RESET	105-1 J5B, 135-39A

HC-14C,551-1	1	REG GND	104-1
HC-14C,551-2	2	REG GND	104-1
HC-14C,551-3	3	REG +8V	103-44
HC-14C,551-4	4	REG +8V	103-44
HC-14C,551-5	5	REG +8V	103-44
HC-14C,551-6	6	REG +8V	103-44
HC-14C,551-7	7	KEY OUT(-)	135-26A
HC-14C,551-8	8	KEY IN-1	135-26B
HC-14C,551-9	9	KEY TEST	135-26B
HC-14C,551-10	10	NC	

SW-444A,510-1	1	NC	
SW-444A,510-2	2	NC	
SW-444A,510-3	3	VIDEO METER	104-35A
SW-444A,510-4	4	H:CH2 MONITOR	208-2
SW-444A,510-5	5	H:CH1 MONITOR	208-1
SW-444A,510-6	6	REG +13V	104-4
SW-444A,510-7	7	REG GND	104-1

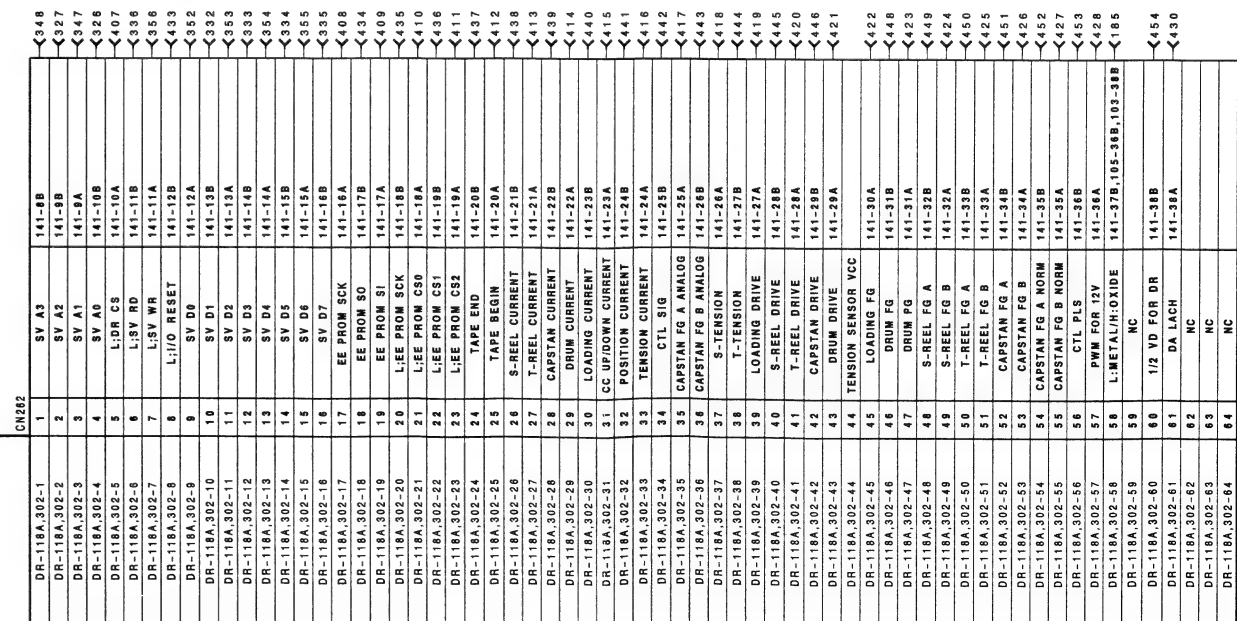
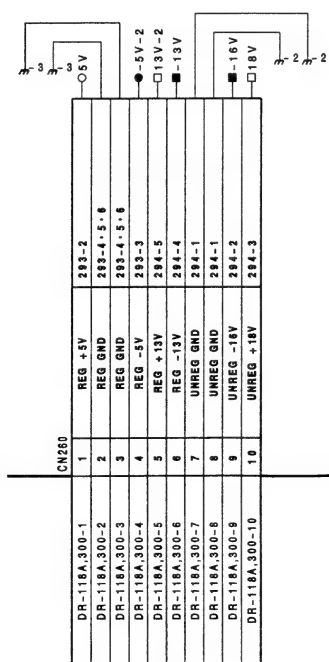
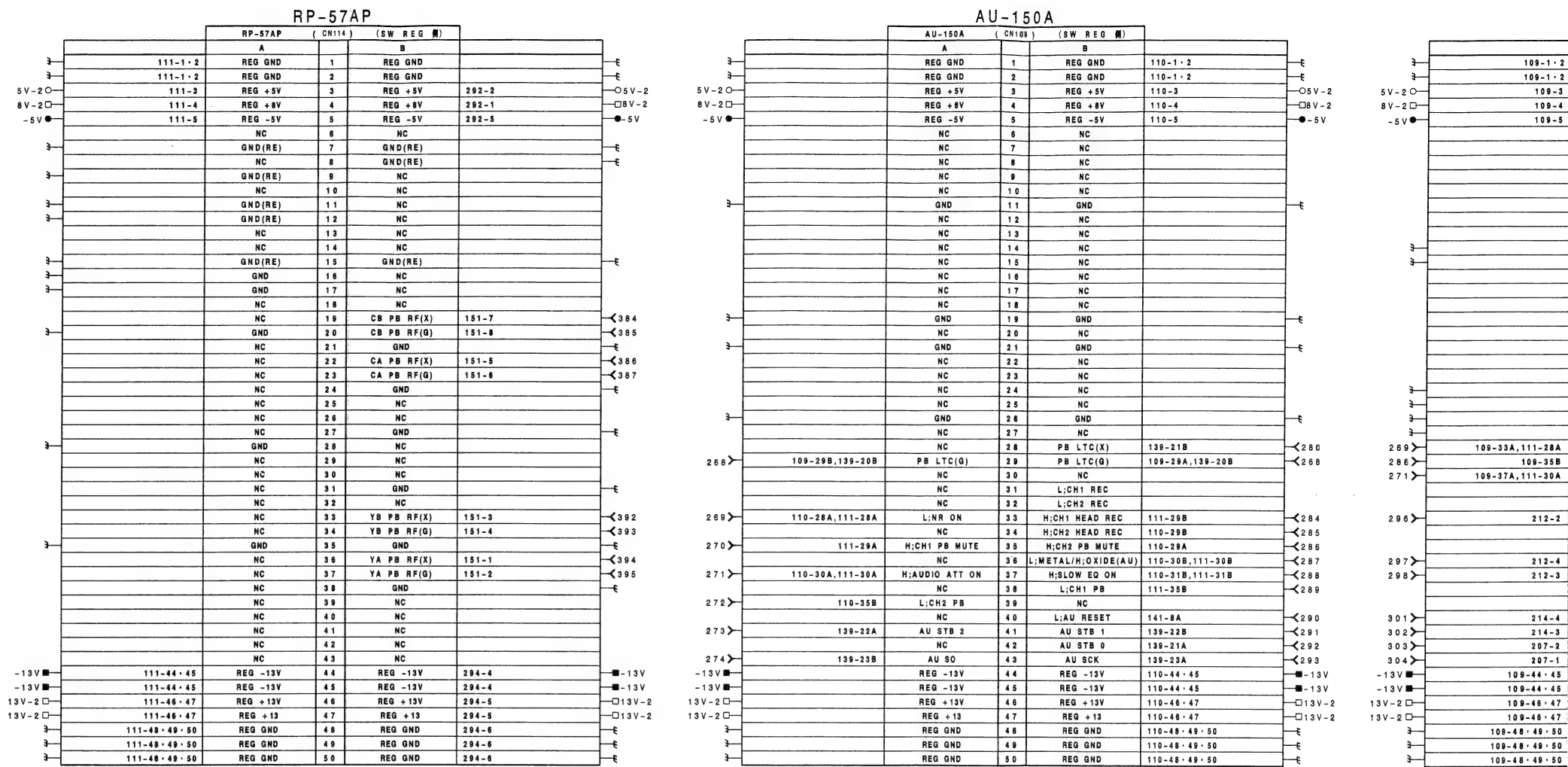
VR-117A,501-1	1	REG +8V	103-46
VR-117A,501-2	2	REG -5V	103-42
VR-117A,501-3	3	REG GND	104-1
VR-117A,501-4	4	NC	
VR-117A,501-5	5	NC	
VR-117A,501-6	6	TRACKING CONT(G)	141-50A
VR-117A,501-7	7	TRACKING CONT(X)	141-50B
VR-117A,501-8	8	TRACKING CONT(VCC)	141-49A

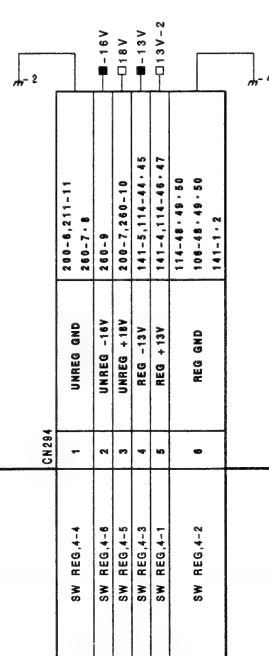
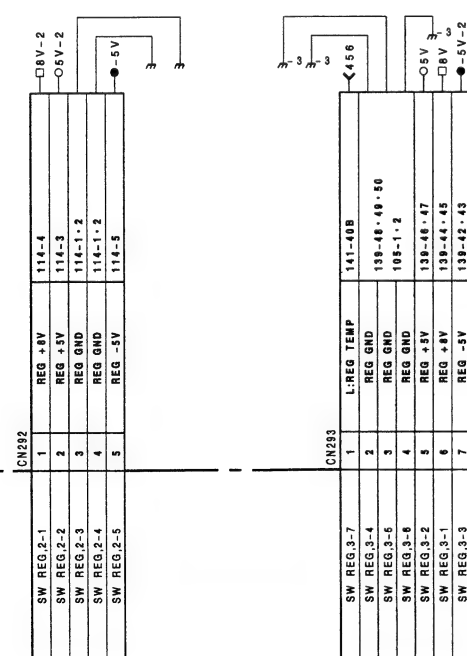
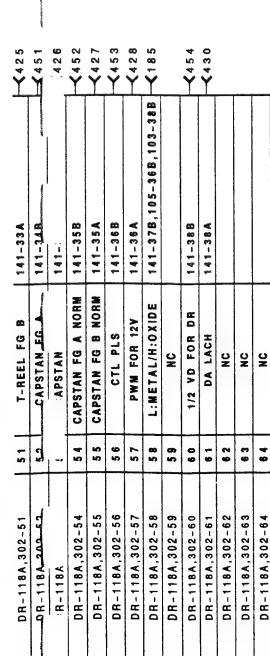
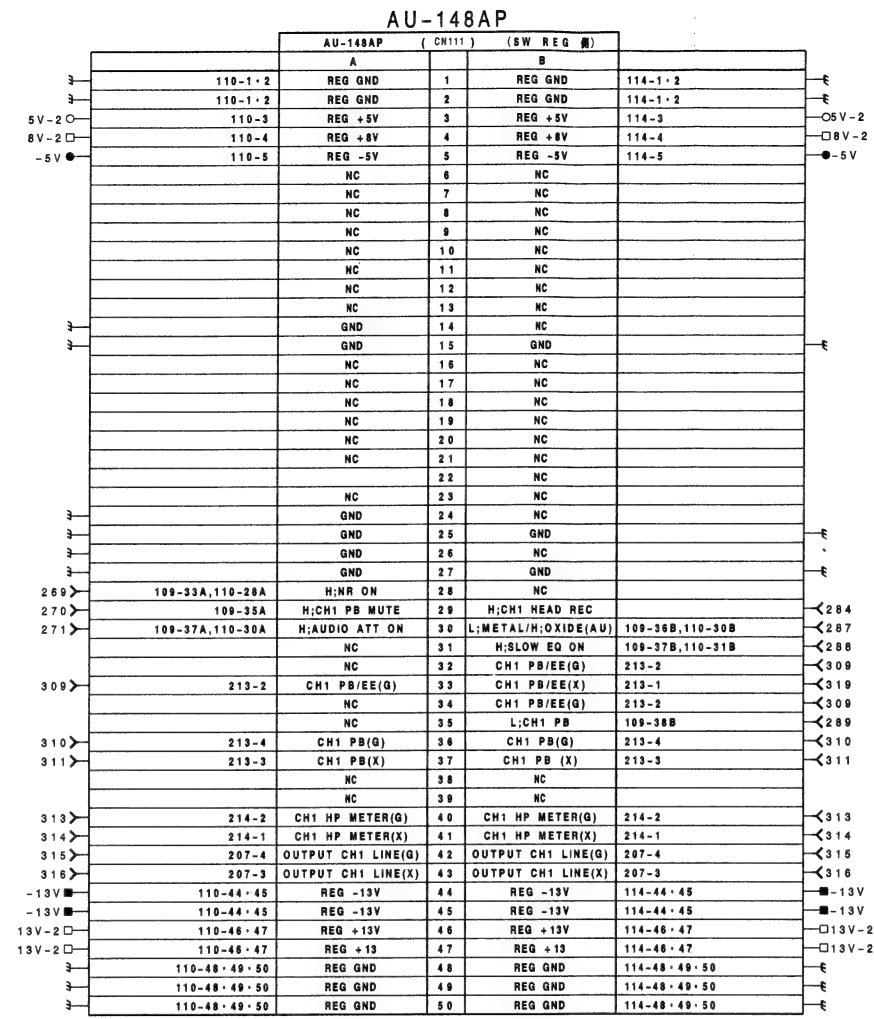
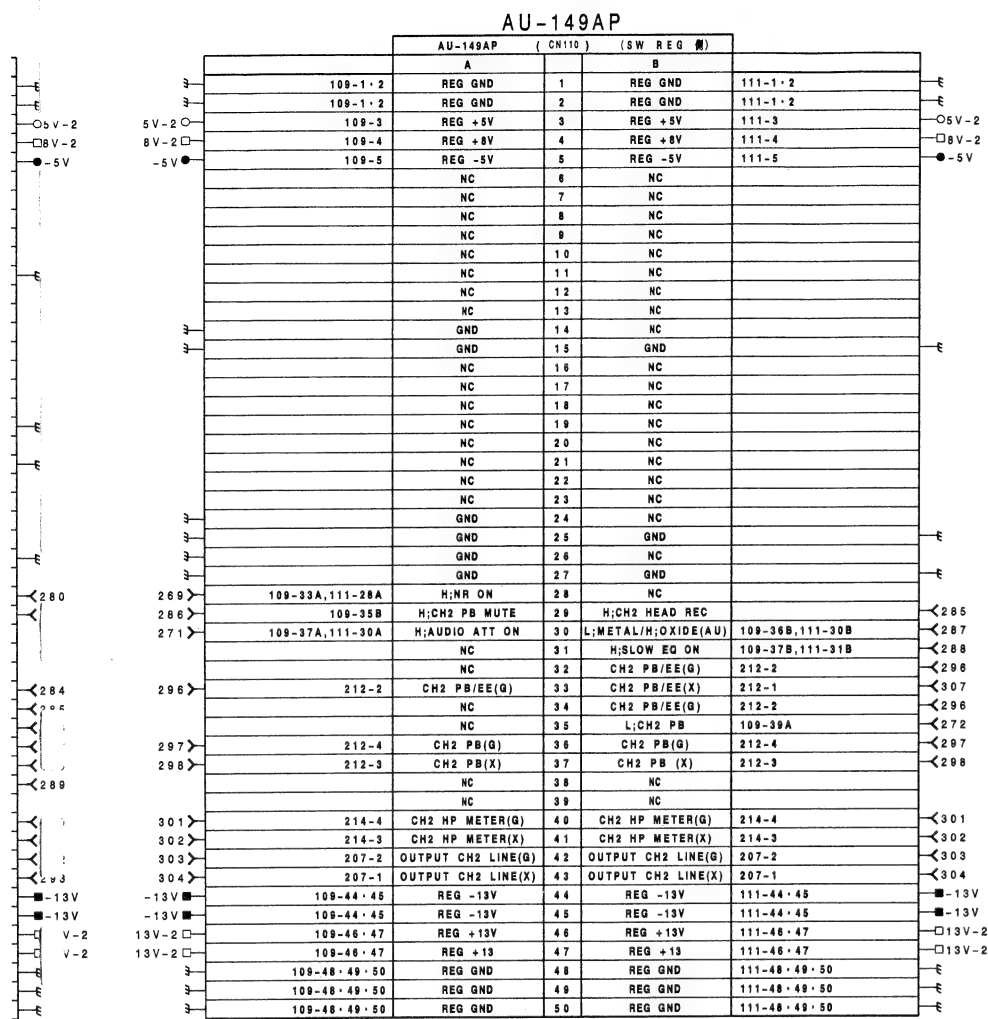
1	REG GND	103-1
2	REG GND	103-1
3	REG GND	103-1
4	REG GND	103-1
5	REG GND	103-1
6	REG GND	103-1
7	NC	
8	NC	
9	NC	
10	NC	

16-49(a)

MB-322A BOARD (2/5)

BOARD NO.1-640-038-21,22
PVW-2600P (EK);#10001-11680

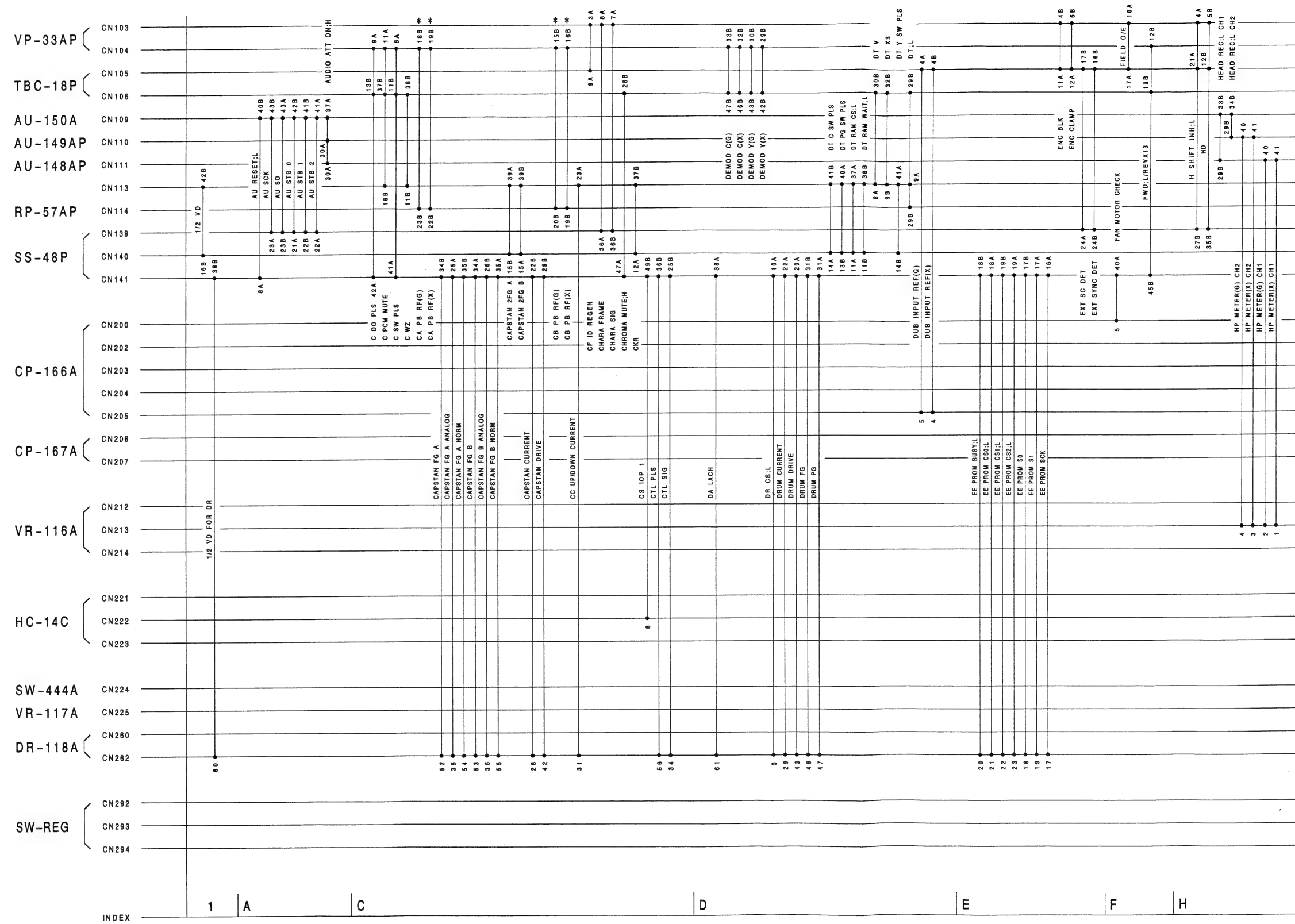


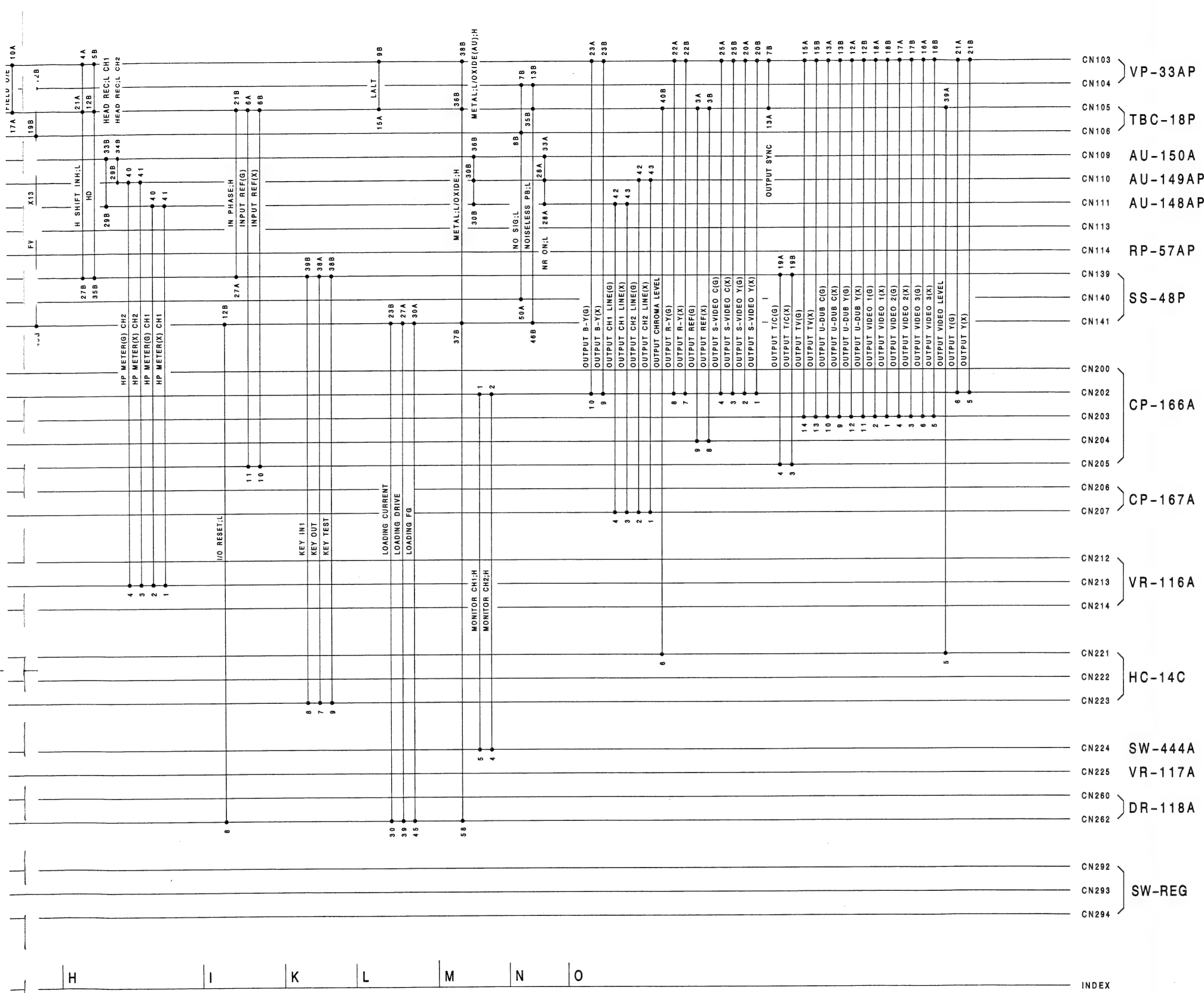


MB-322A BOARD (3/5)

BOARD NO.1-640-038-21,22
PVW-2600P (EK);#10001-11680

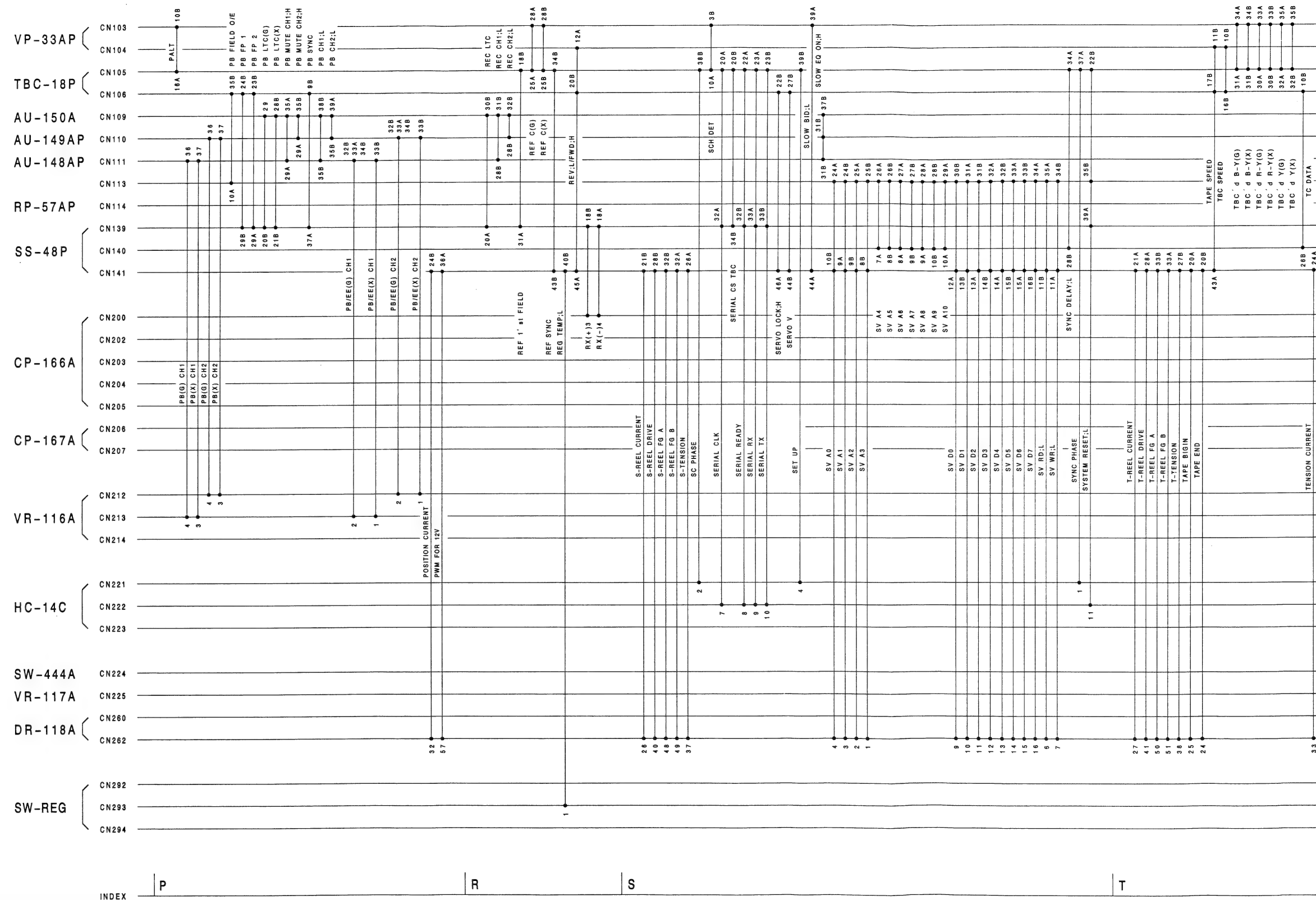
MB-322A(4/5);MOTHER BOARD

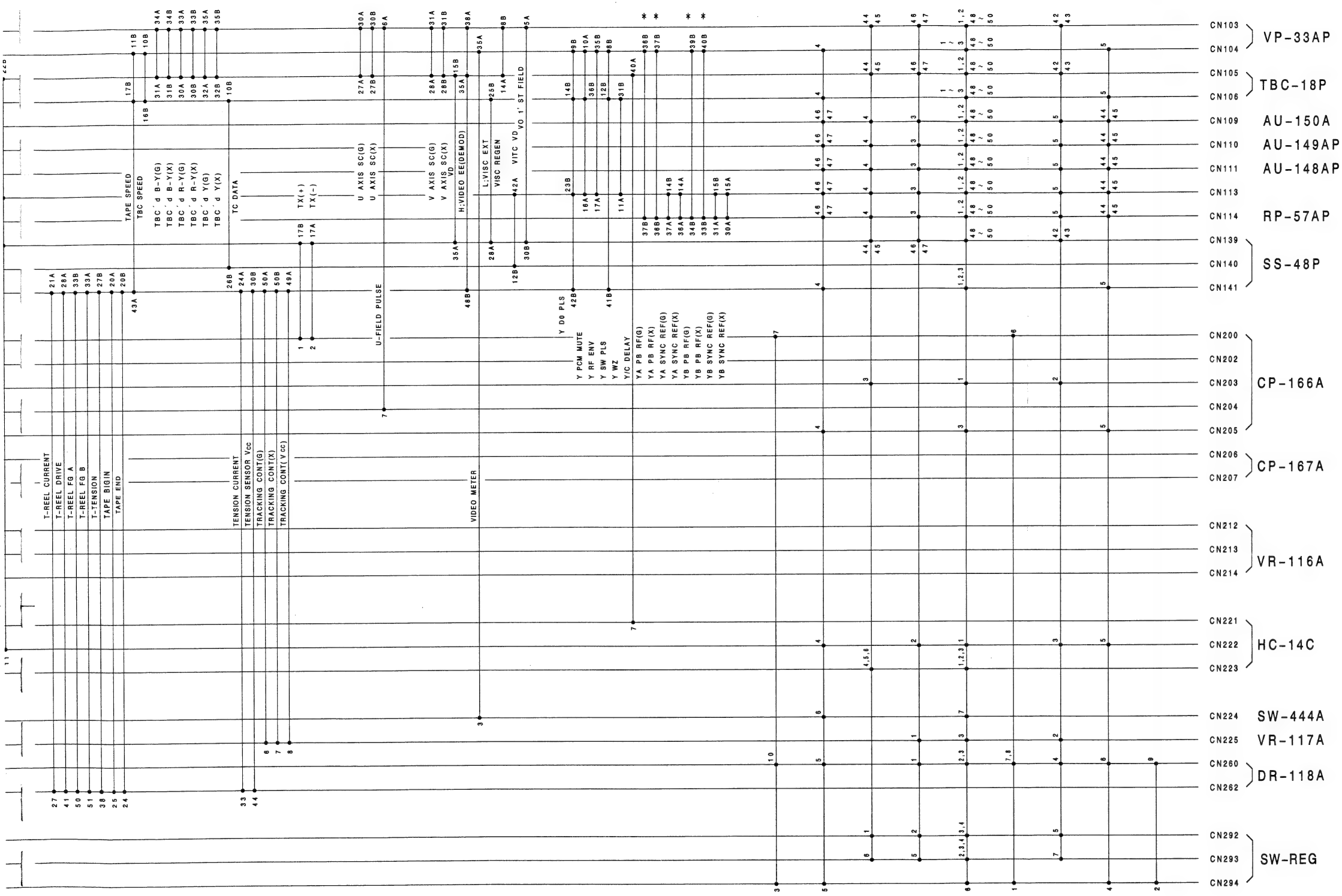




*Via CN150,CN151 on the MB-322A Board.

MB-322A(5/5);MOTHER BOARD



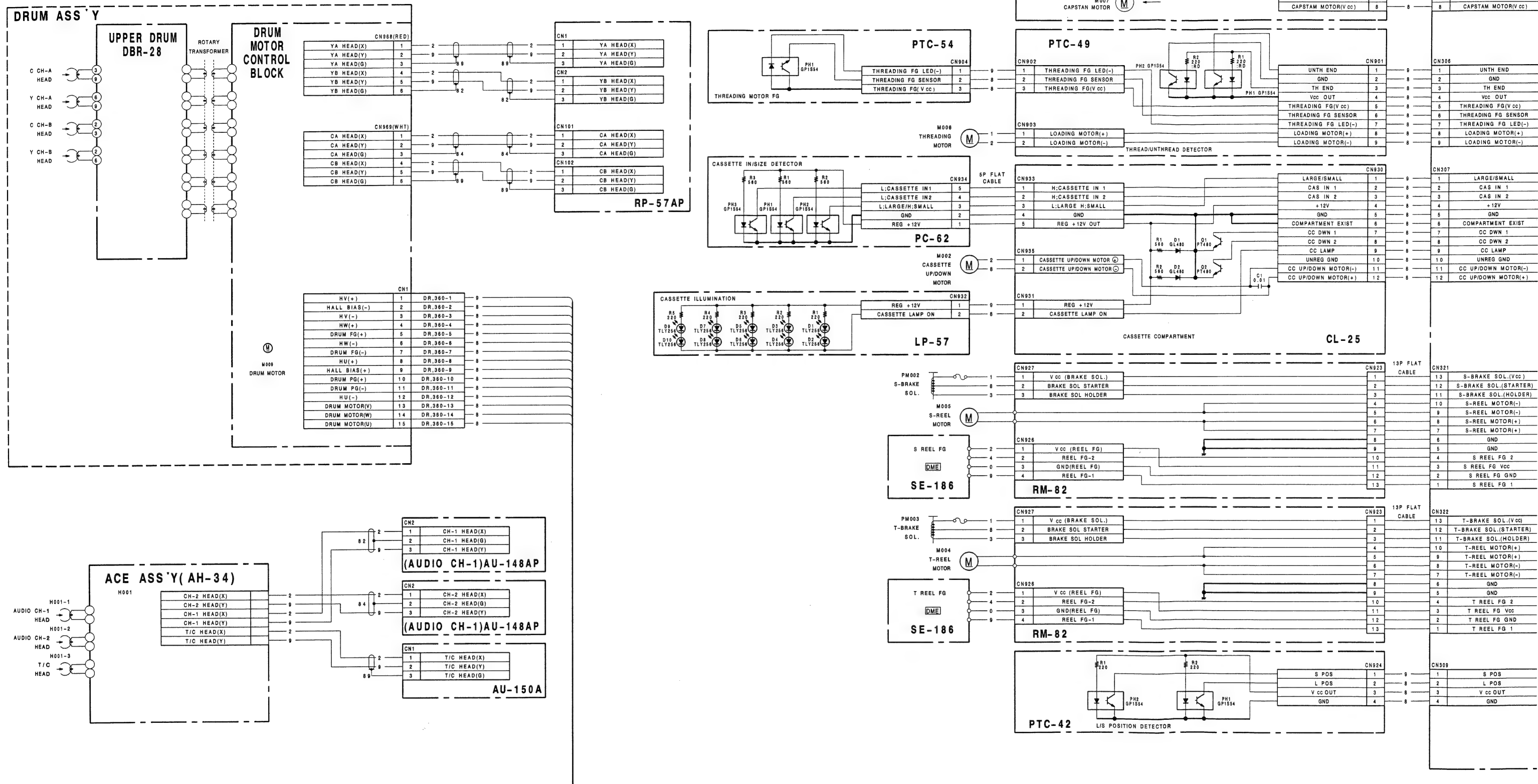


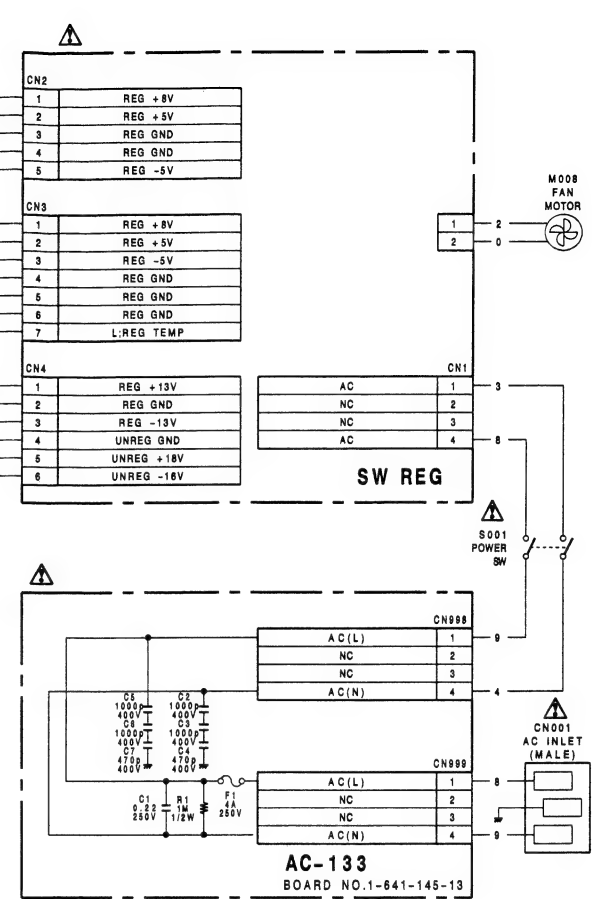
* Via CN150,CN151 on the MB-322A Board.

MB-322A BOARD (5/5)
BOARD NO.1-640-038-21,22
PVW-2600P(EK);#10001-11680

Serial No. (EK) ; 15836 and higher
Serial No. (UC) ; 10011 and higher

FRAME(1/2)

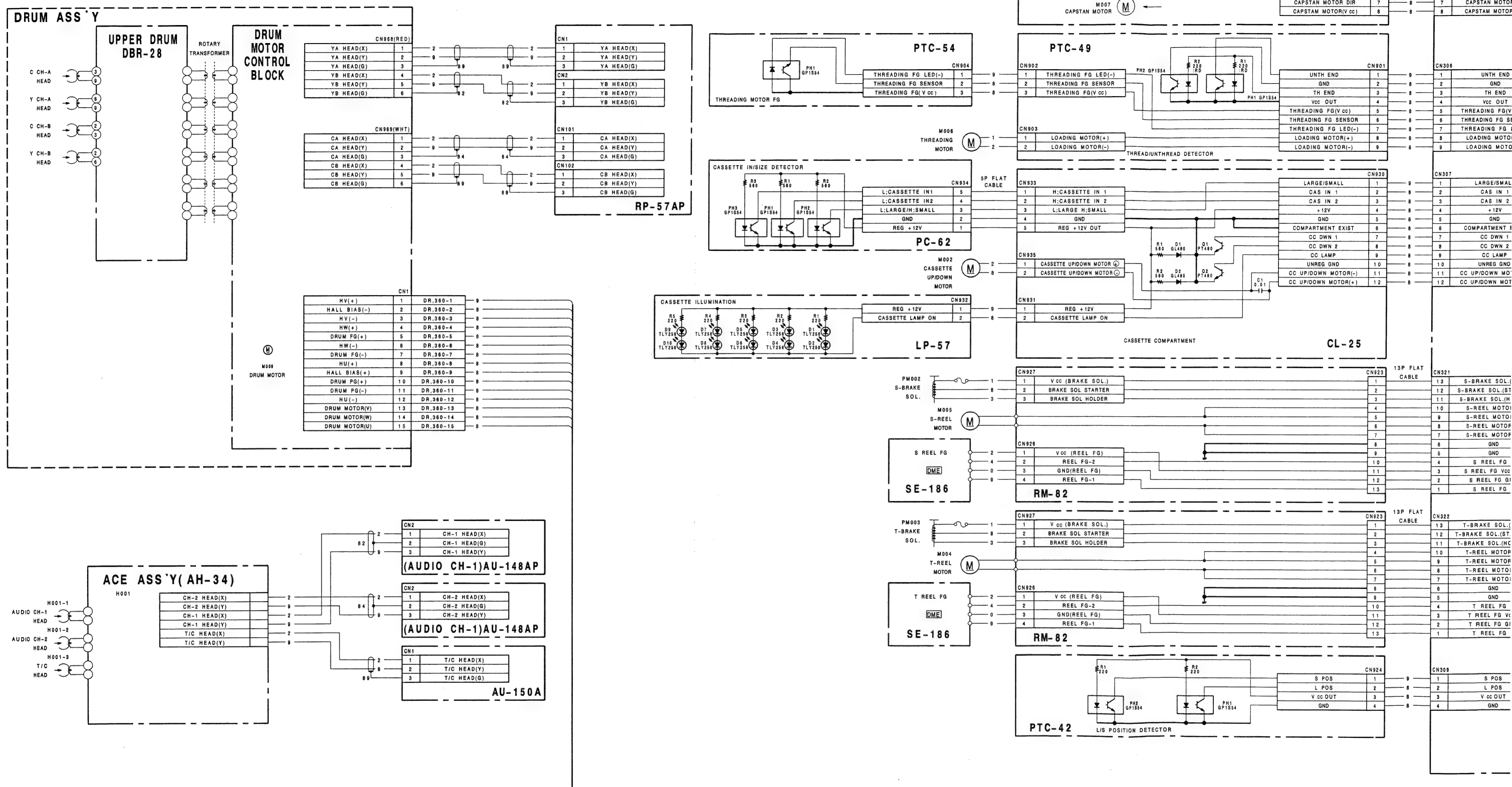


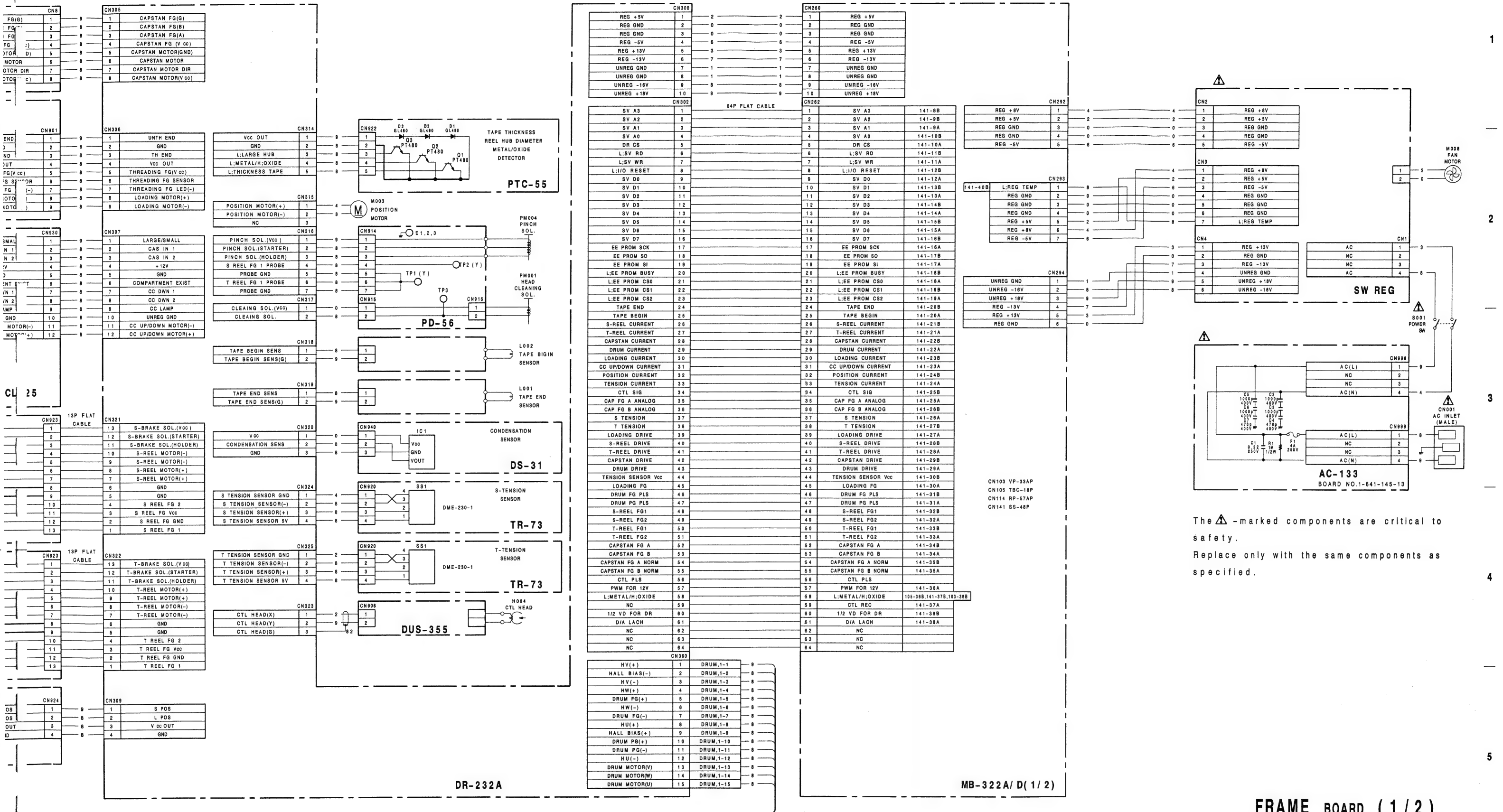


Replace only with the same components as specified.

PVW-2600P (EK);#15836-
PVW-2600P (UC);#10011-

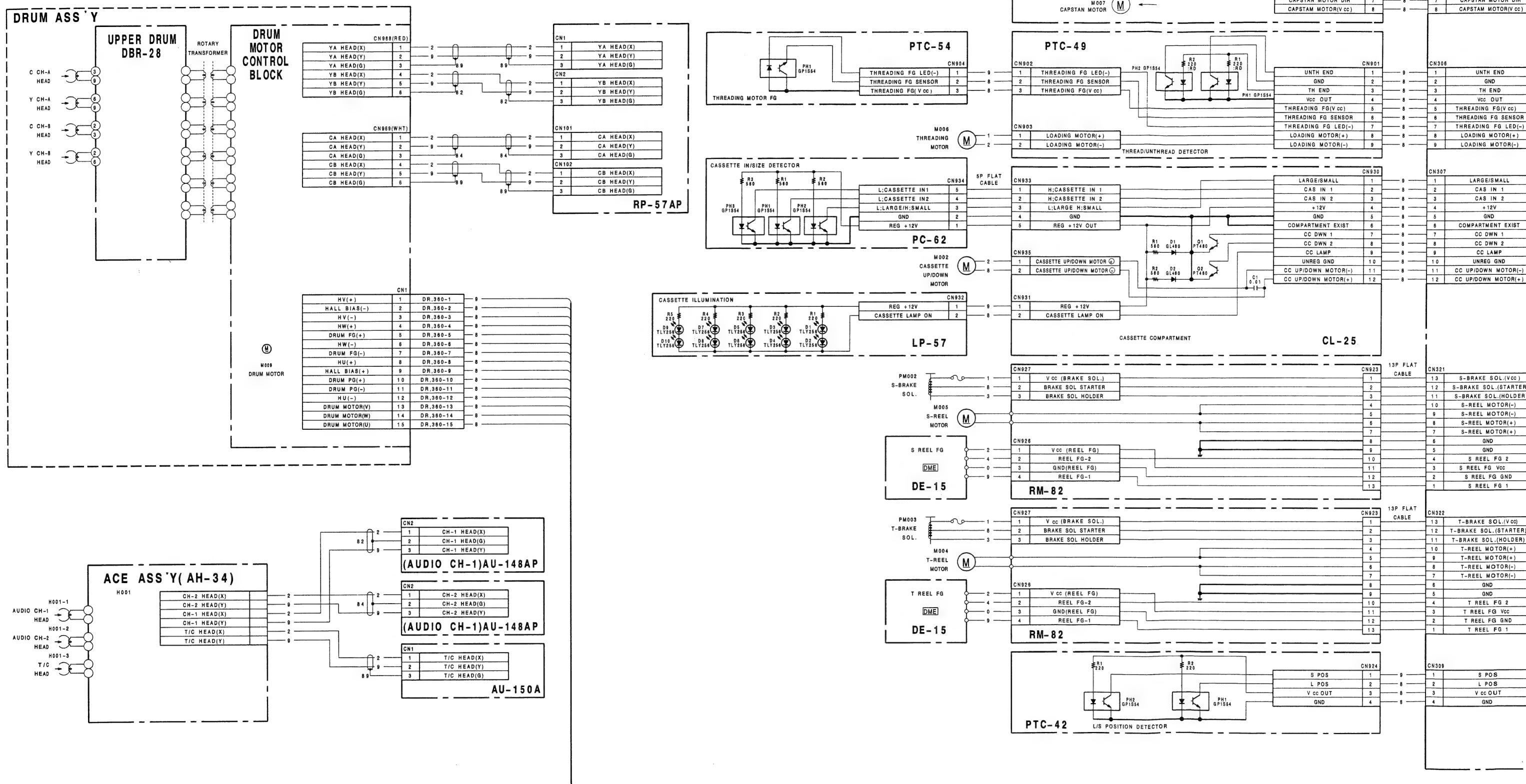
FRAME(1/2)

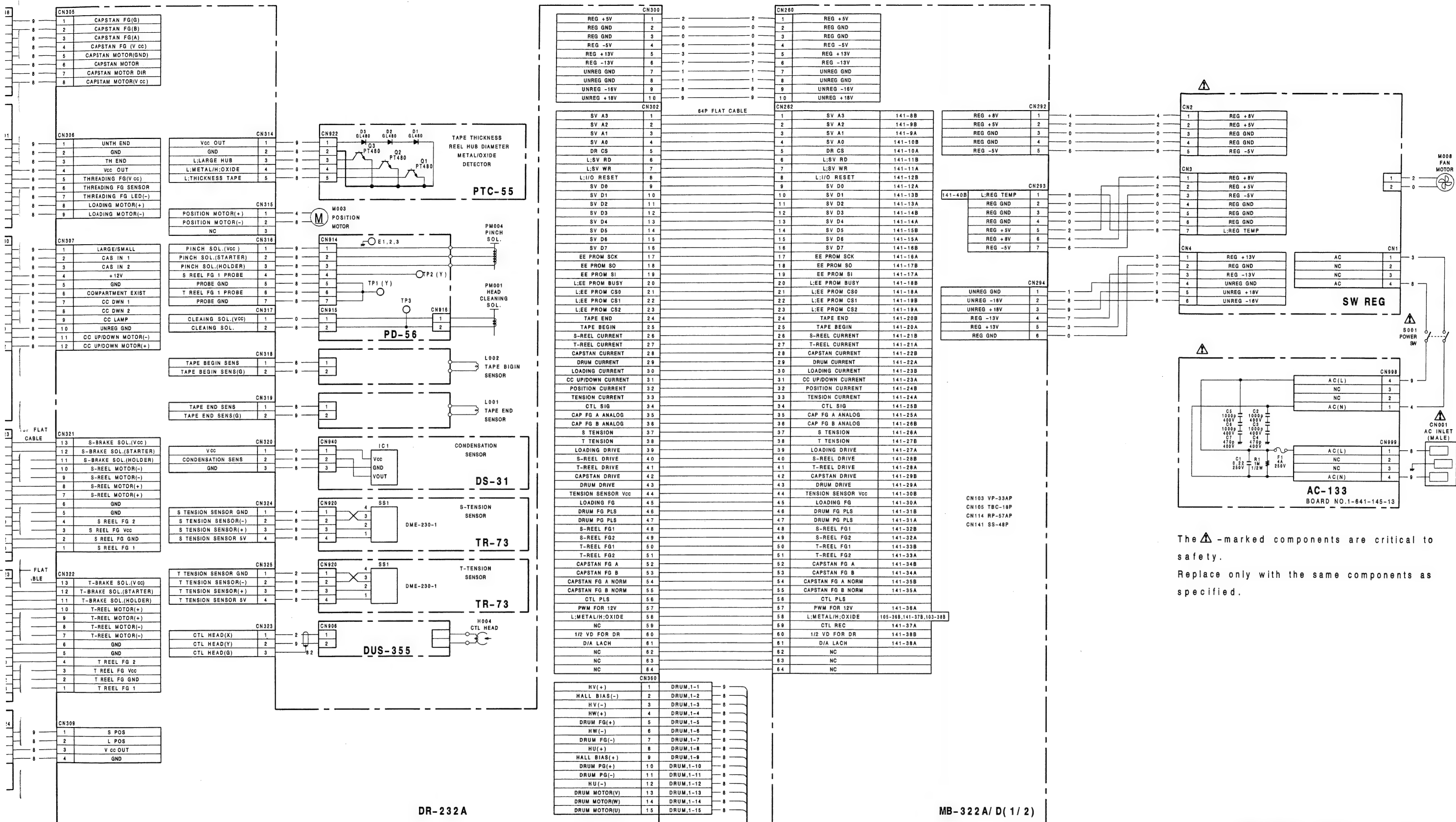




Serial No. (EK) ; 10001 to 14585
Serial No. (UC) ; 10001 to 10010

FRAME(1/2)





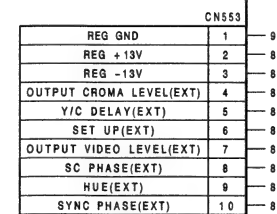
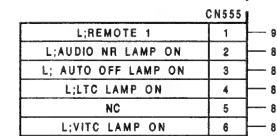
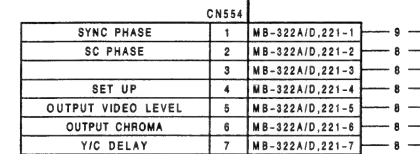
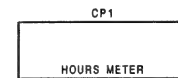
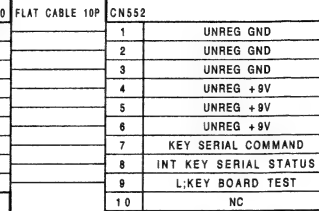
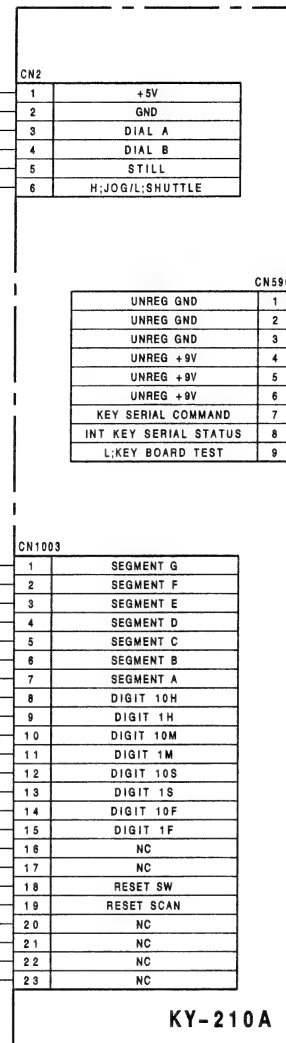
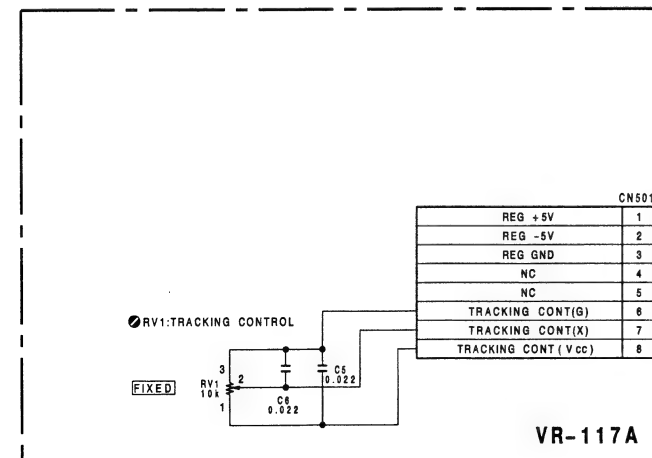
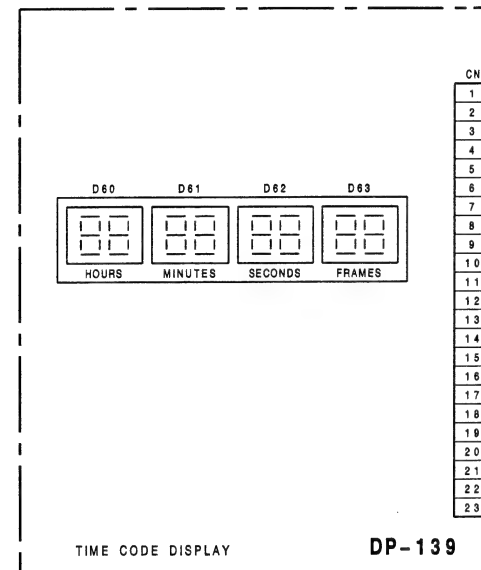
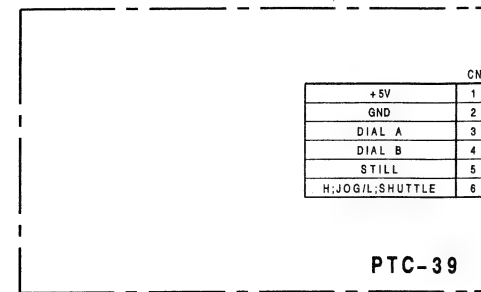
FRAME BOARD (1/2)

PVW-2600P (EK);#10001-14585
PVW-2600P (UC);#10001-10010

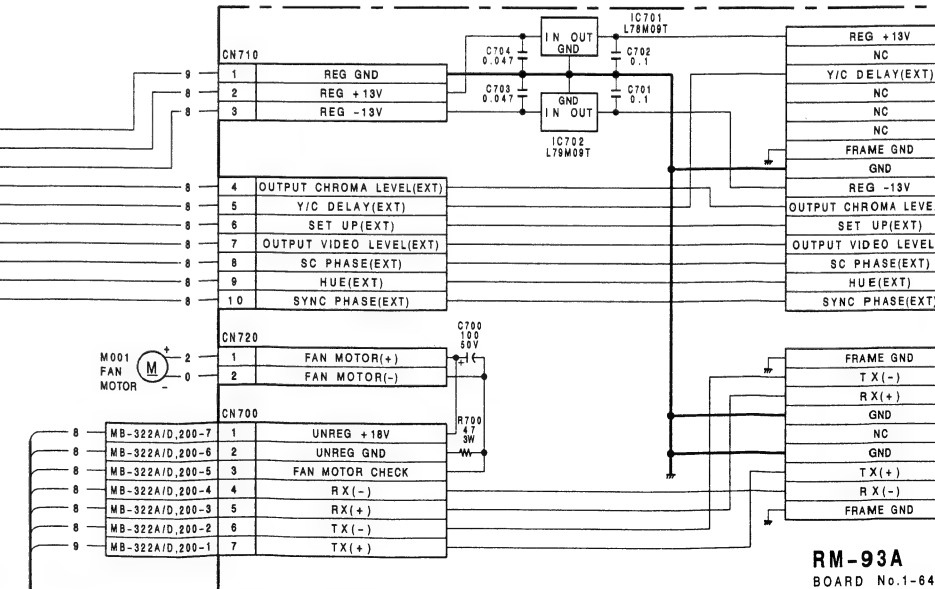
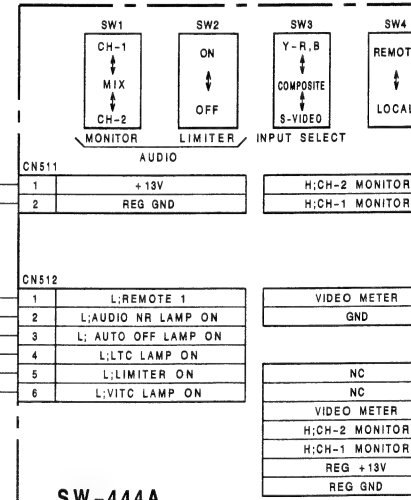
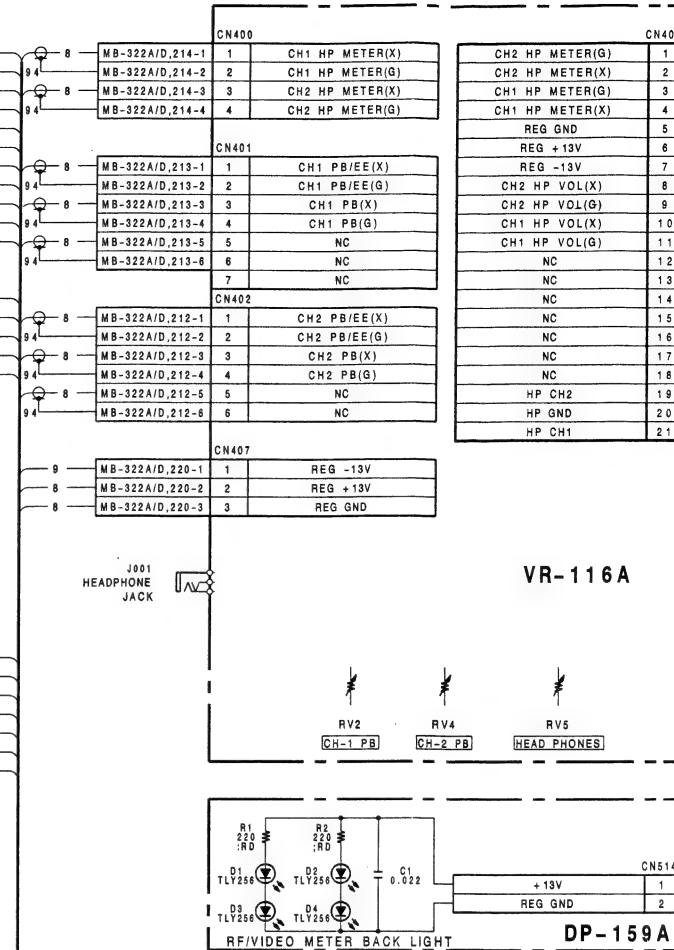
Serial No. (EK); 15256 and higher
Serial No. (UC); 10011 and higher

FRAME(2/2)

FRAME(2/2) FRAME(2/2)



HC-14C



16-54(c)

A

B

C

D

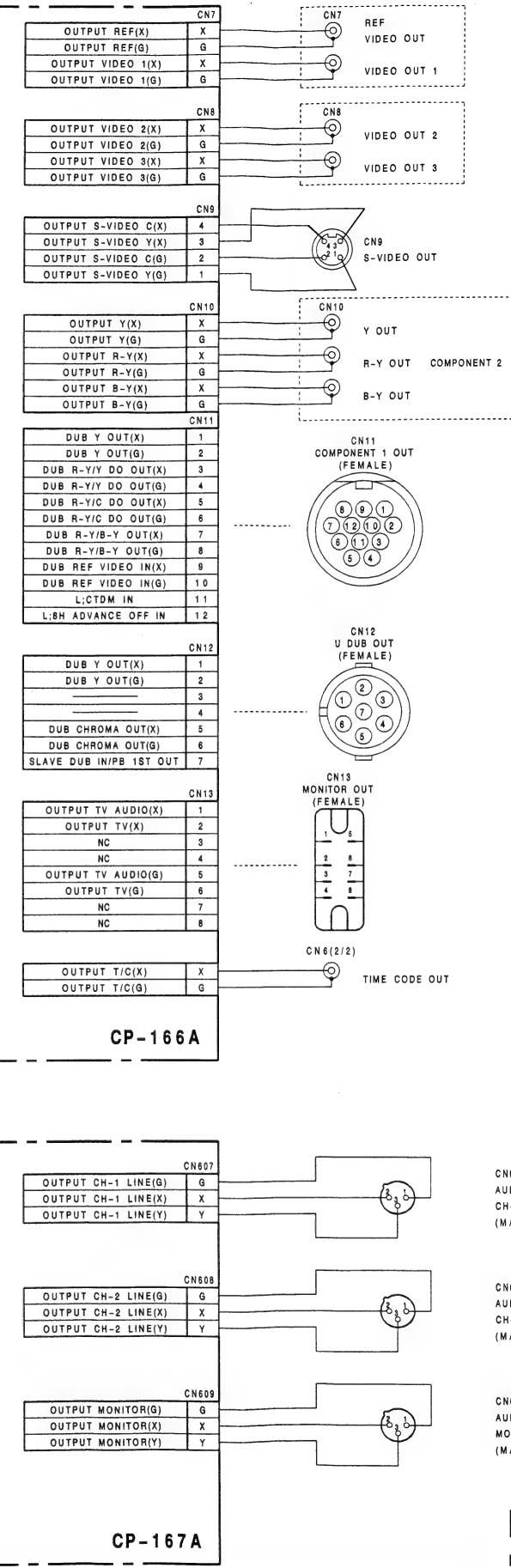
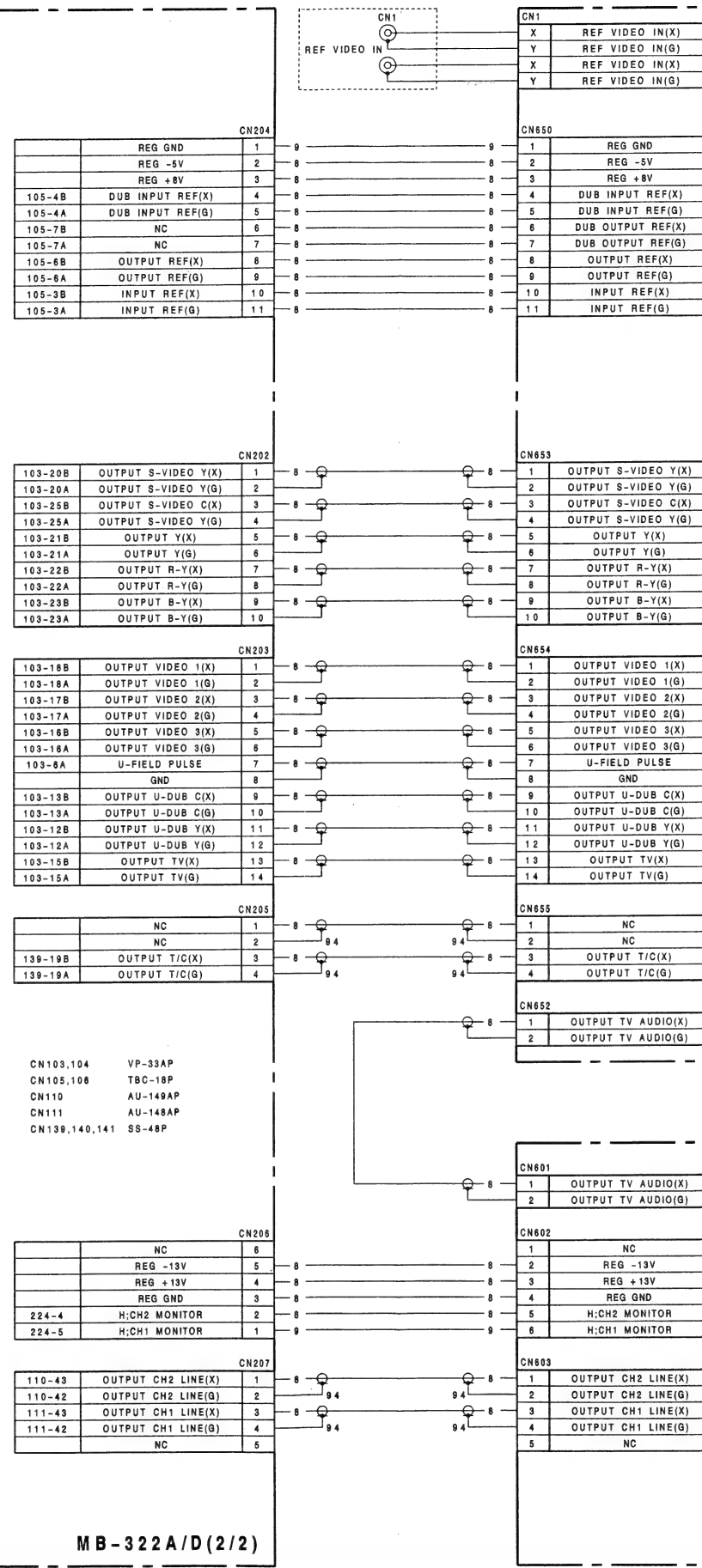
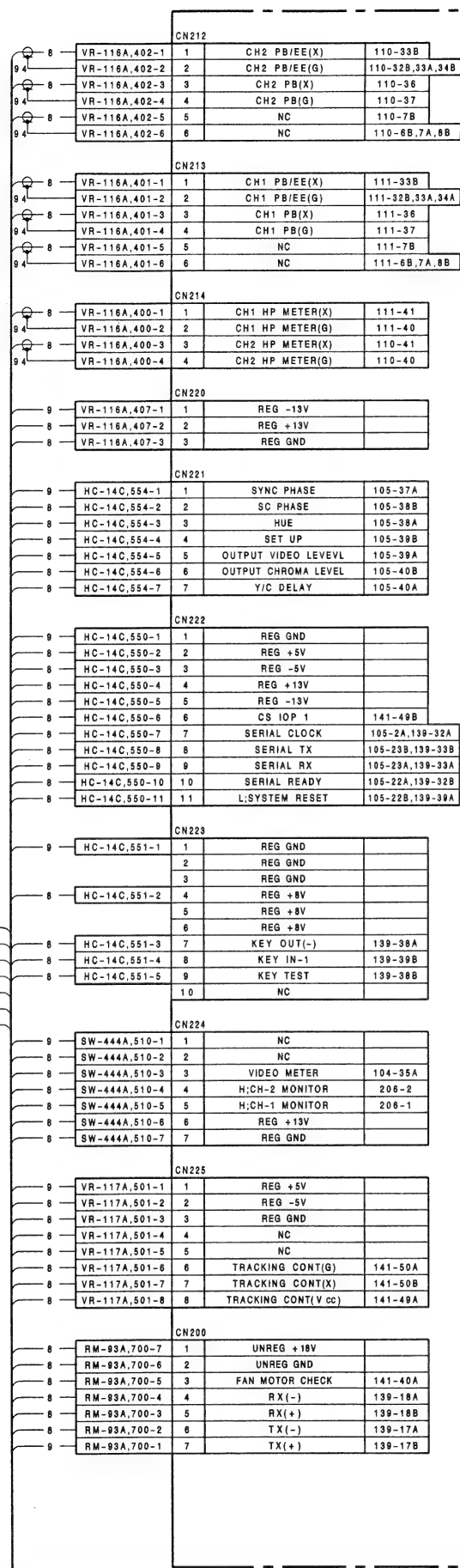
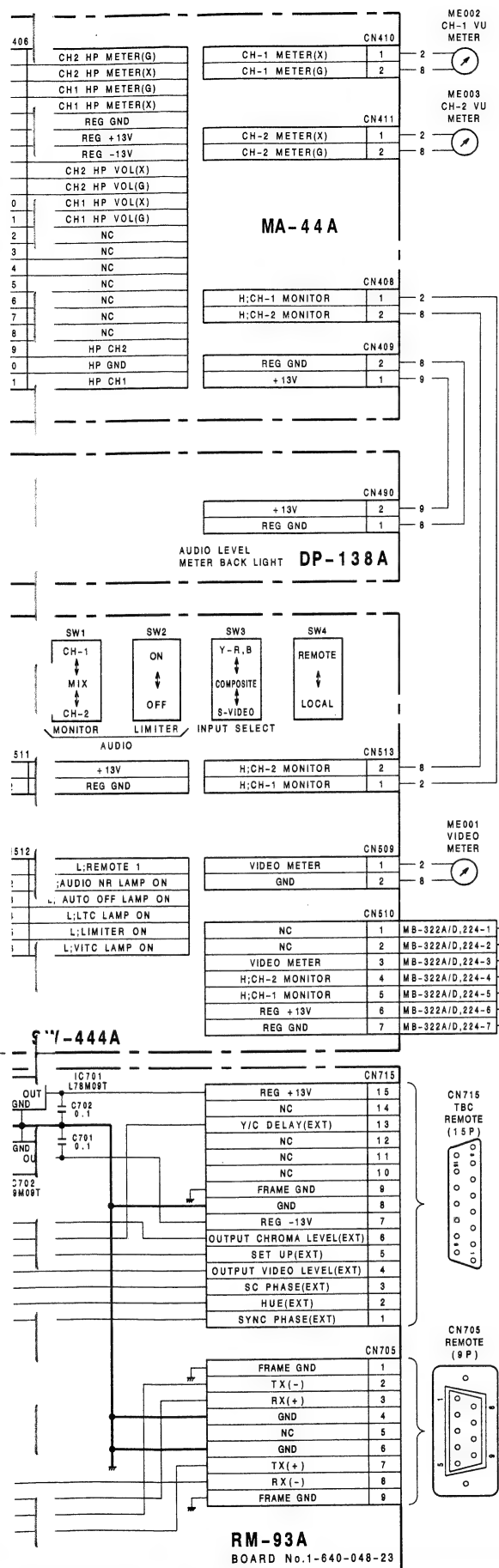
E

F

G

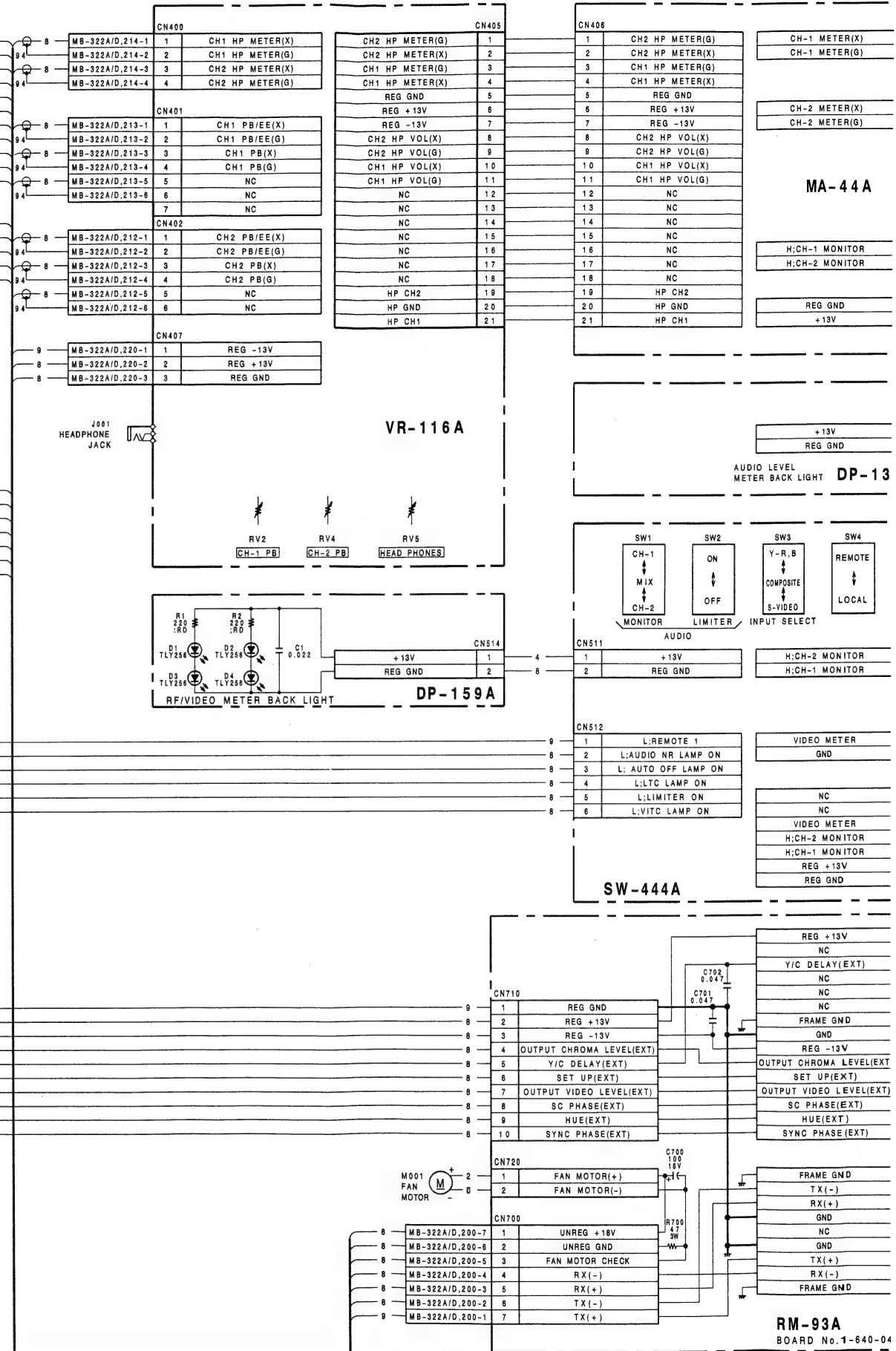
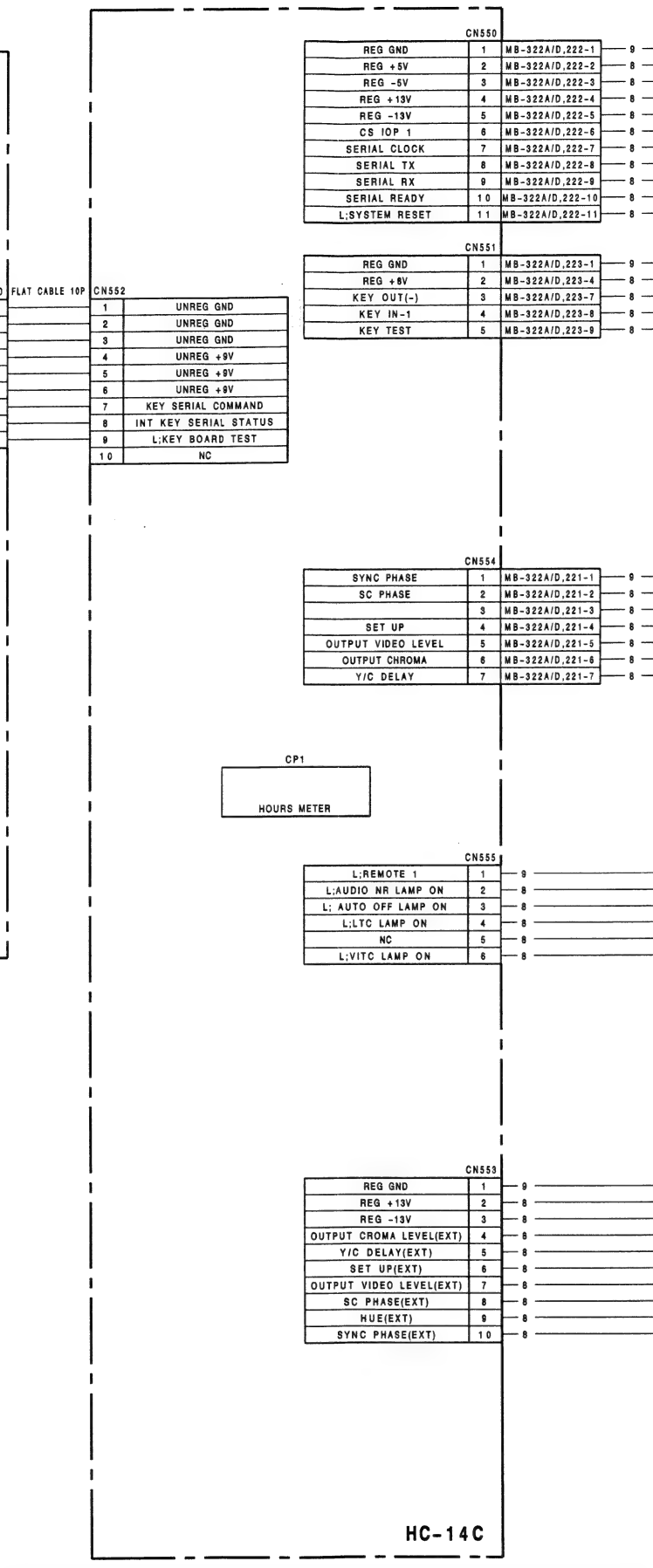
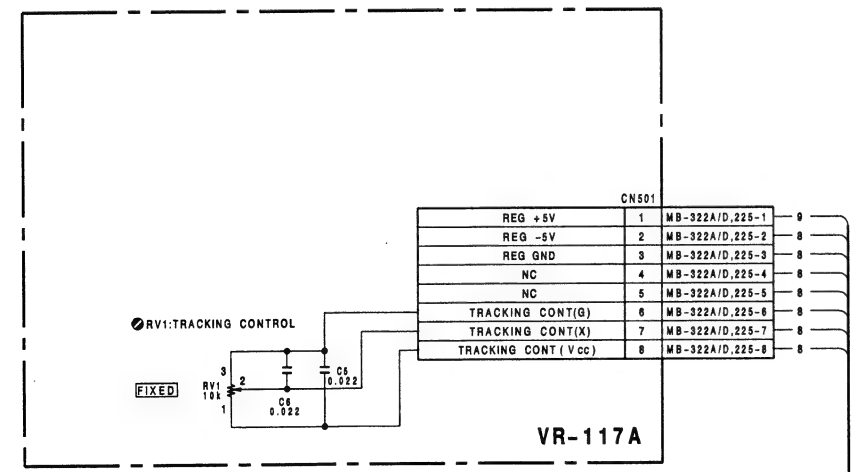
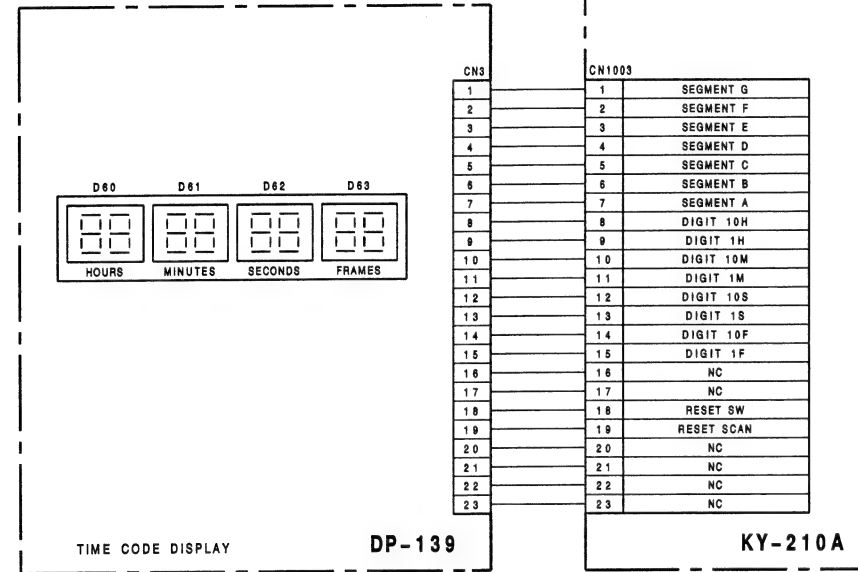
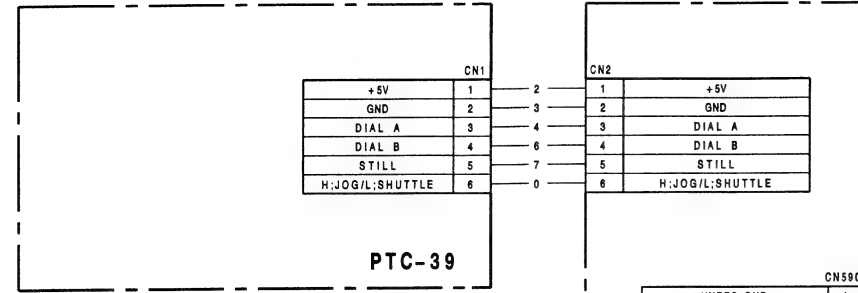
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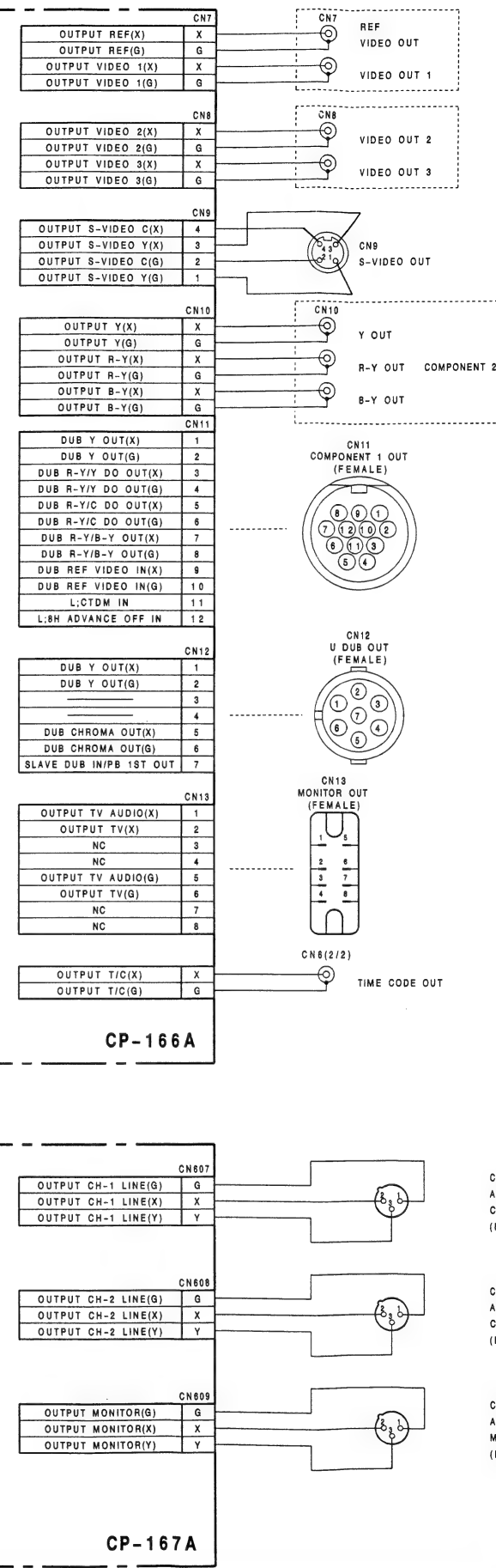
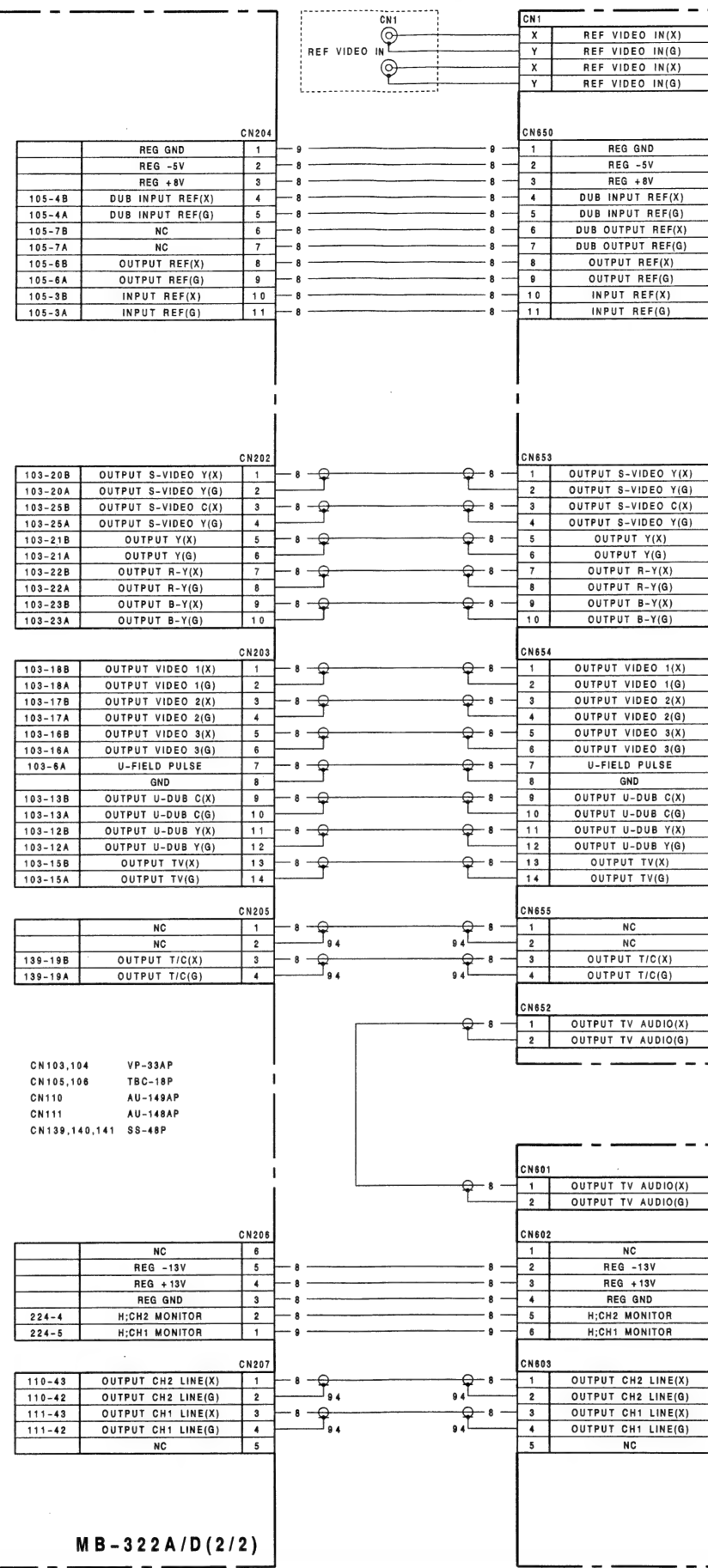
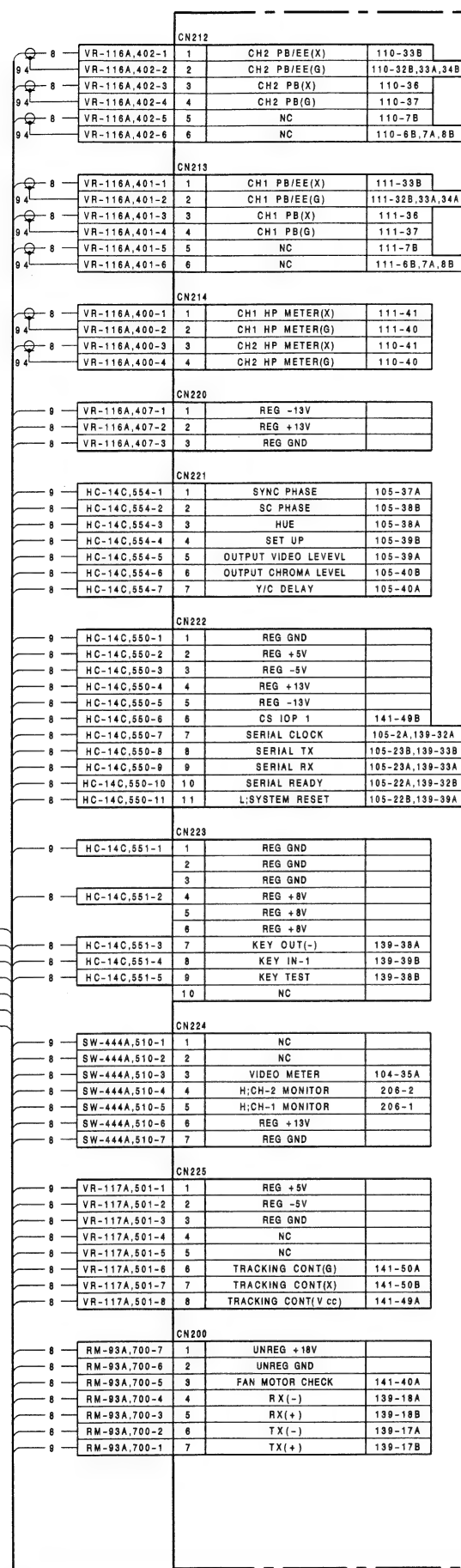
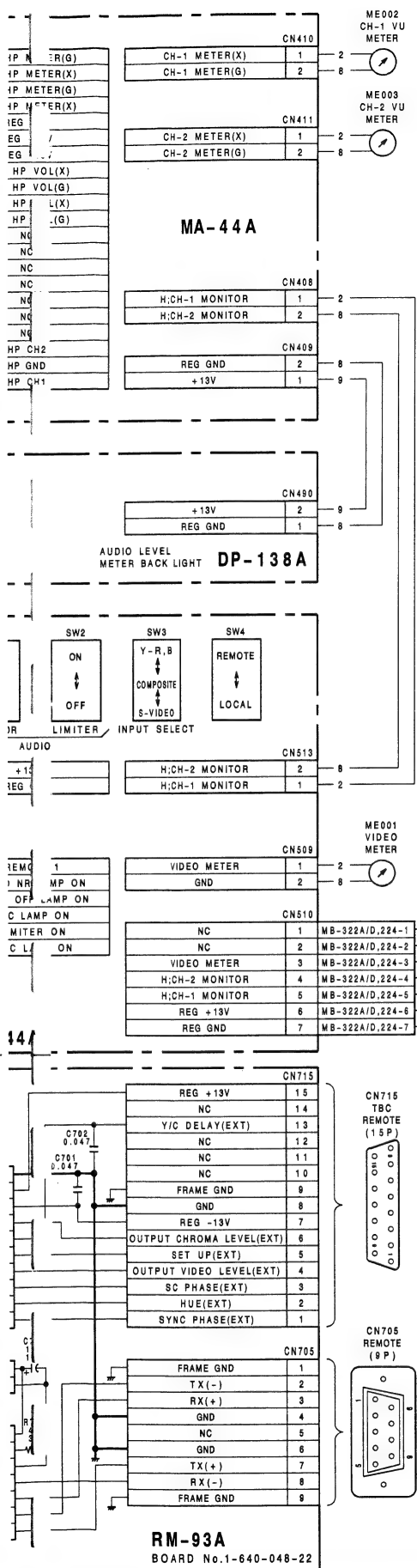
I



Serial No. (EK) ; 14586 to 15255
Serial No. (UC) ; 10011 and higher

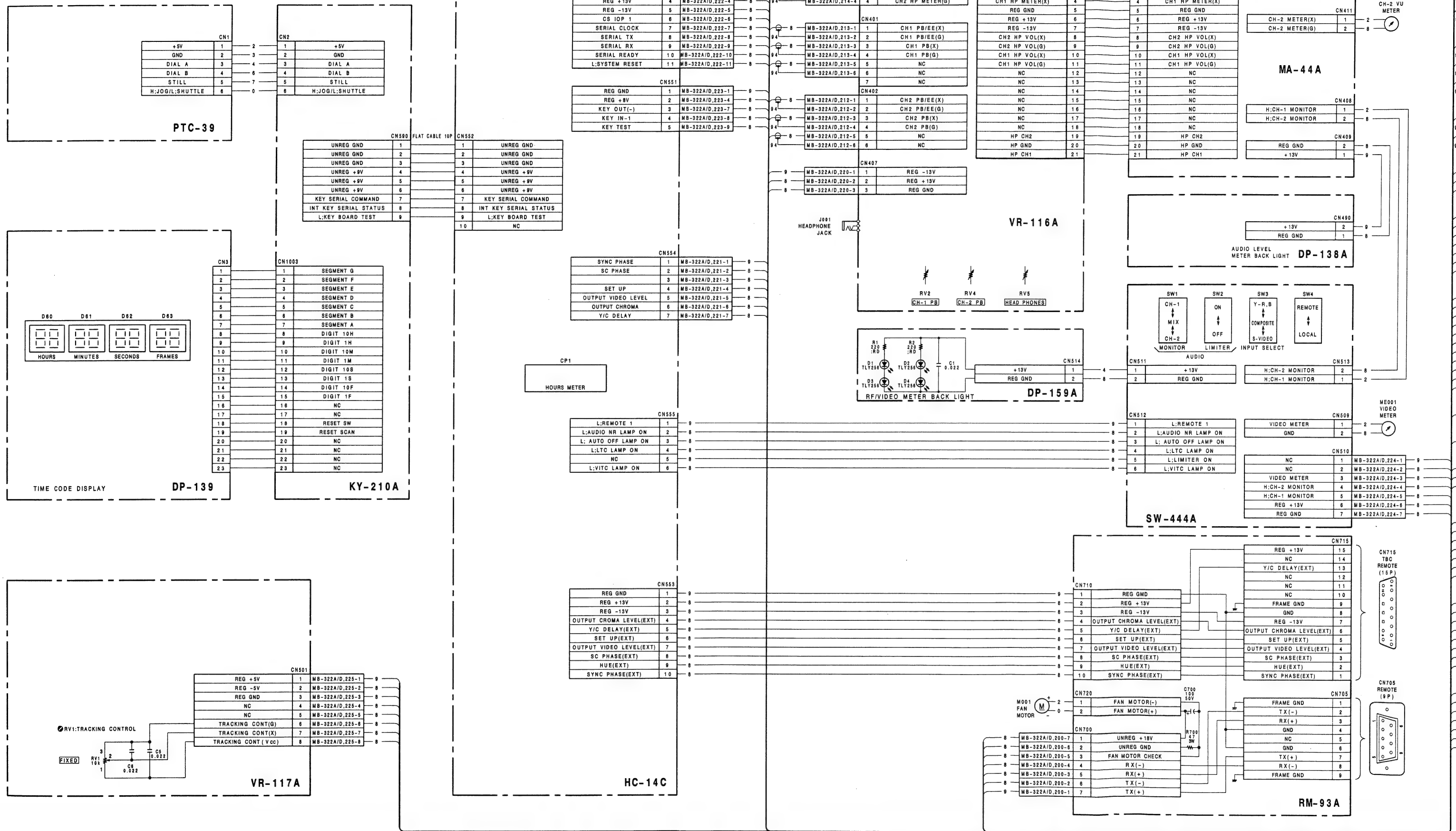
FRAME(2/2)

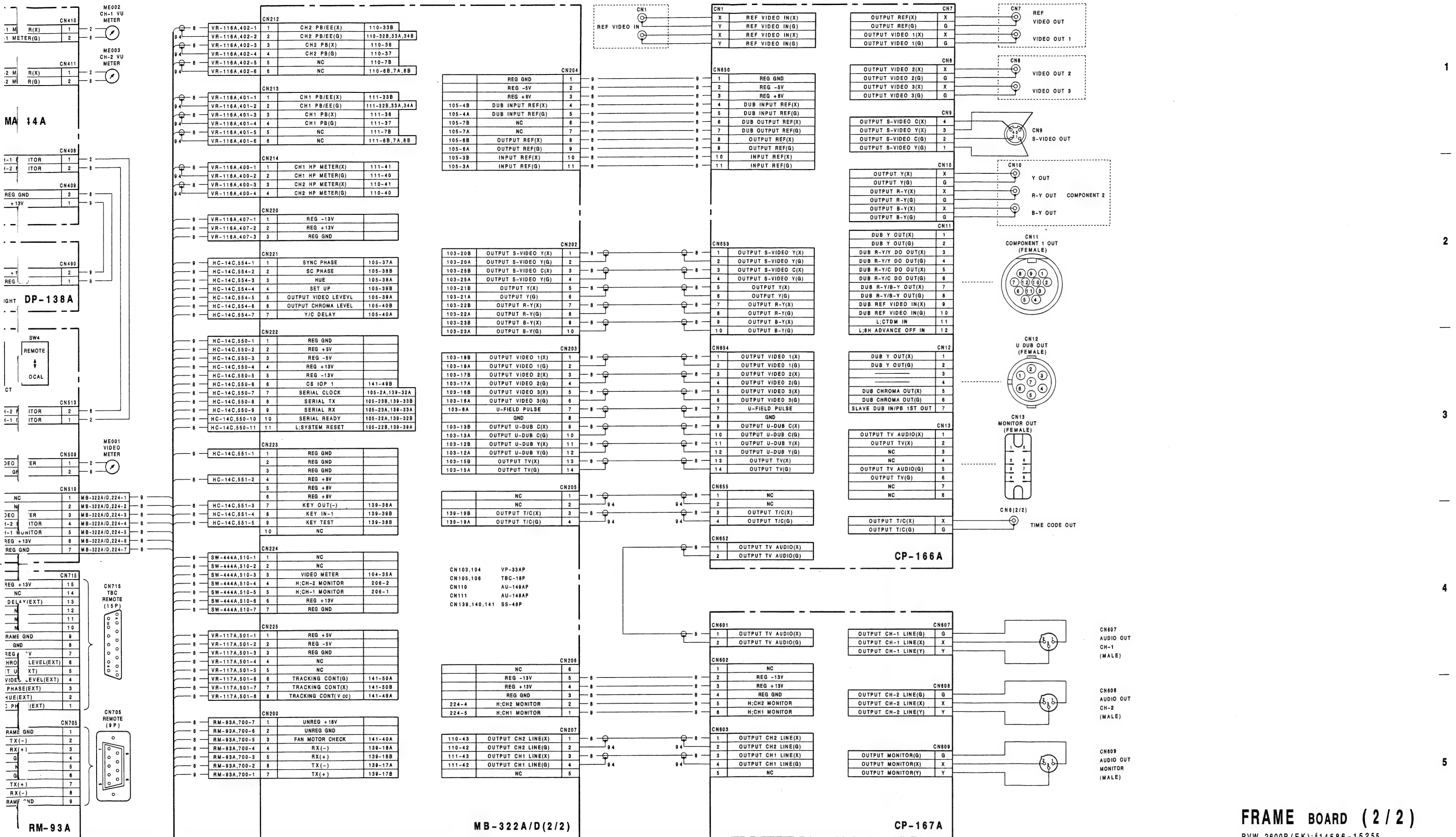




Serial No.(EK);10001 to 14585
Serial No.(UC);10001 to 10010

FRAME(2/2)



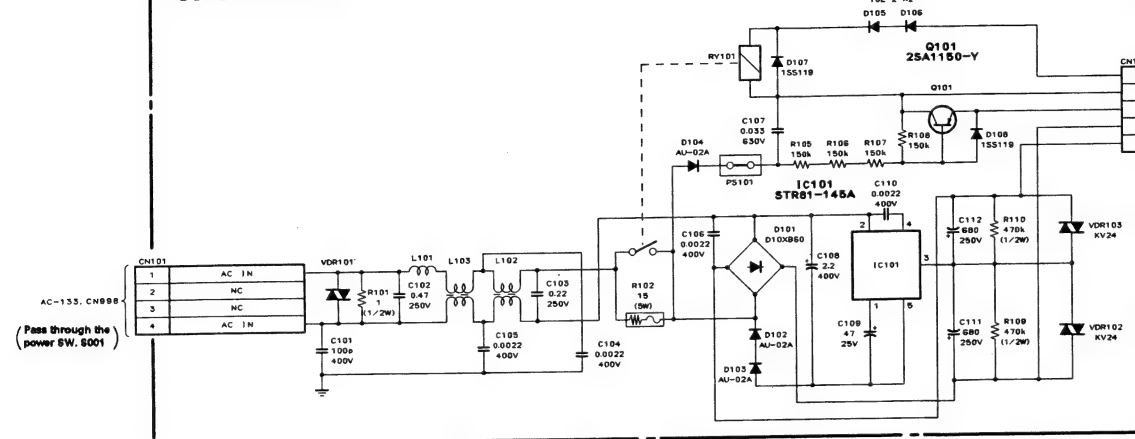


FRAME BOARD (2/2)

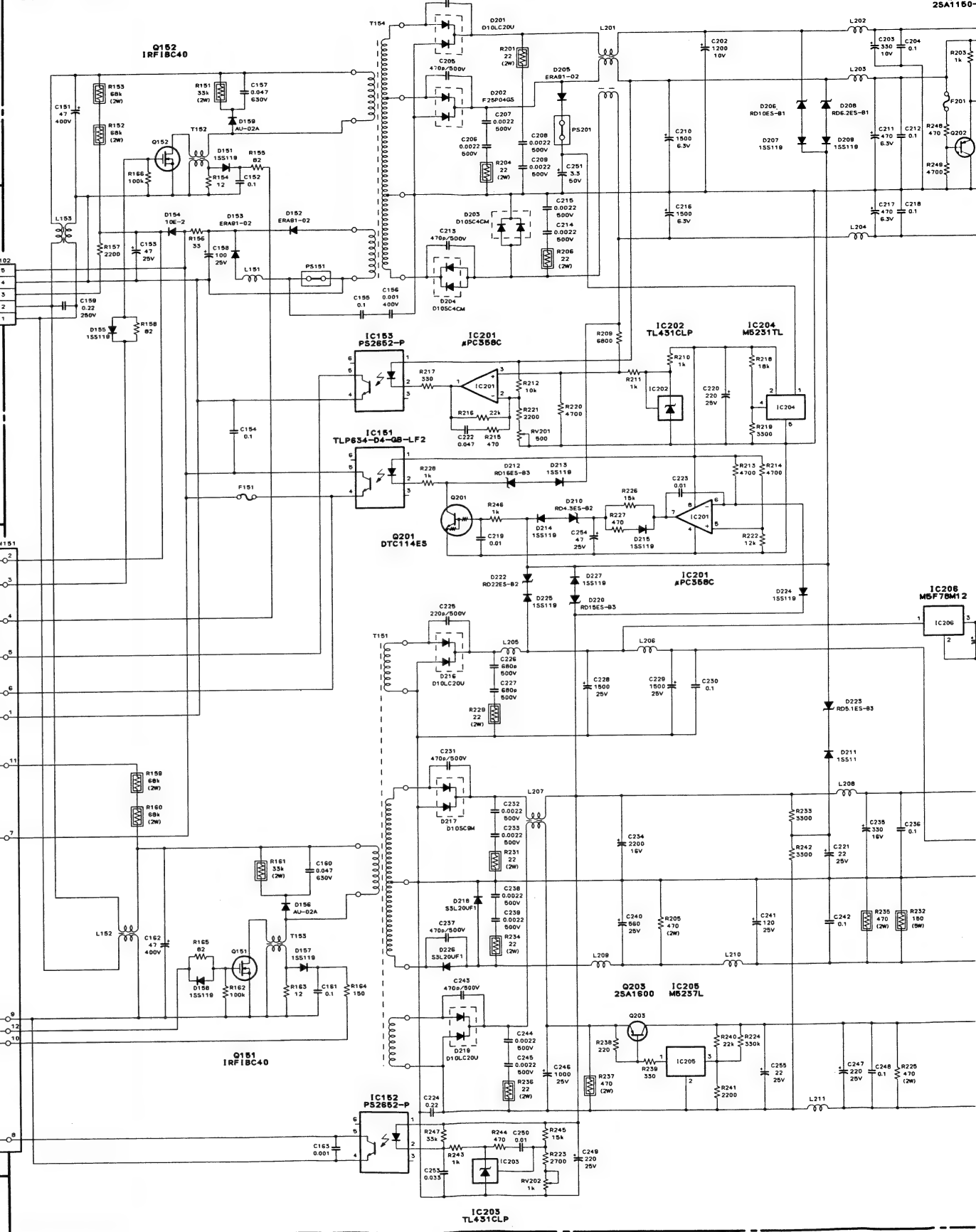
PVW-2600P (EK);#14586-15255
PVW-2600P (UC);#10001-10010

SOPS-1019A; SWITCHING REGULATOR
SOPS-1019B; SWITCHING REGULATOR
SOPS-1019C; SWITCHING REGULATOR

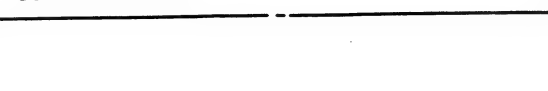
SOPS-1019B BOARD



SOPS-1019A BOARD

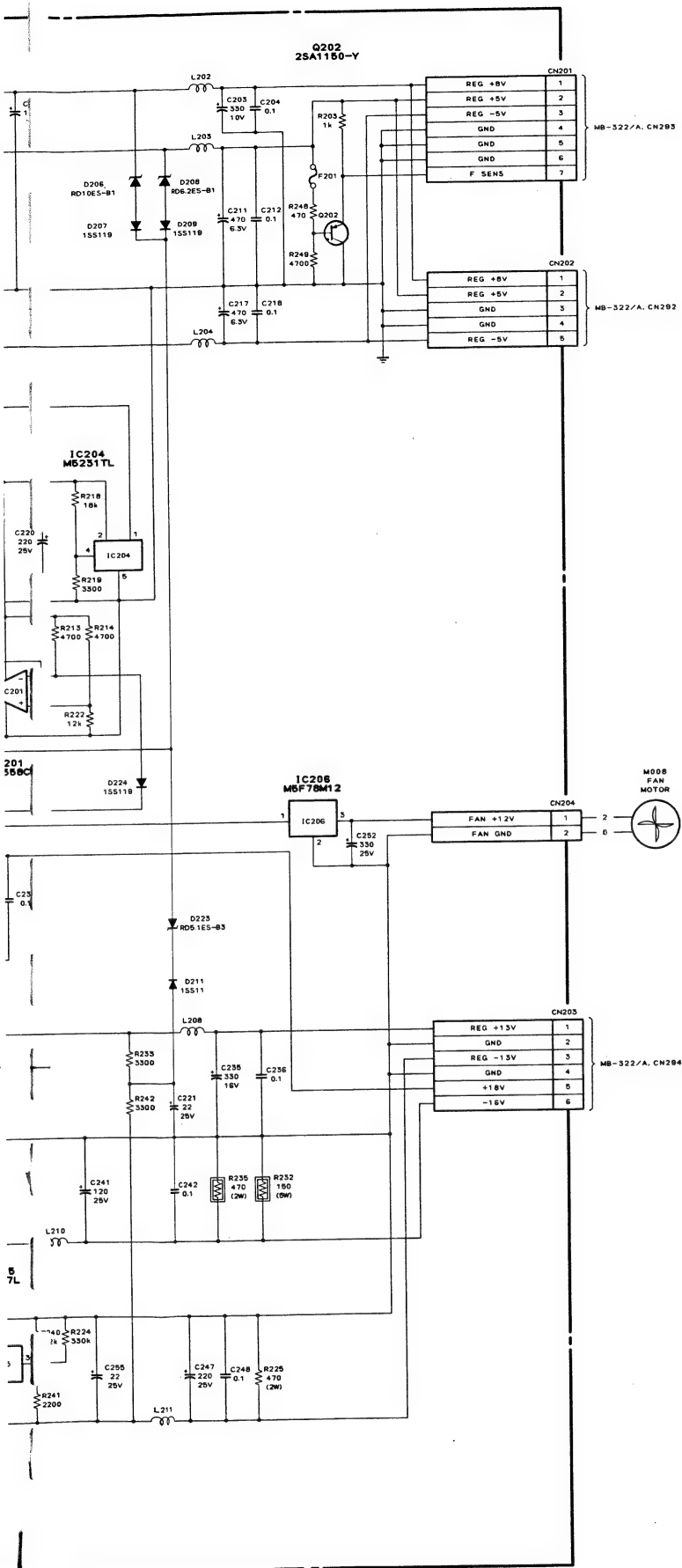


SOPS-1019C BOARD



NOTE

The switching regulator SOPS-1019 is critical component to safety.
Replace only with the same components as specified.



222065

SONY

VIDEOCASSETTE PLAYER

PVW-2600P

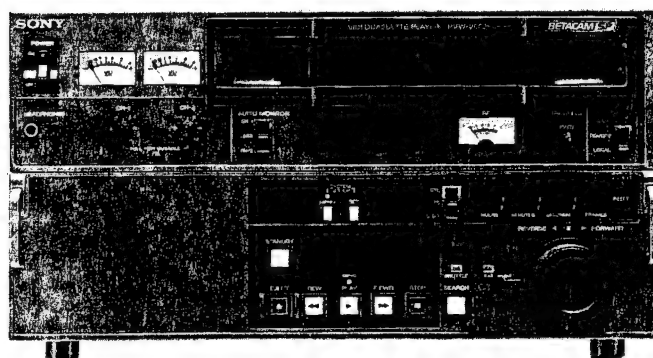
SERVICE MANUAL

Vol.2 1st Edition (Revised 1)

Serial No.10001 and Higher
(EK)

Serial No.10001 and Higher
(USA CANADA)

BETACAM SP
2000PRO



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SECTION 17

SEMICONDUCTOR PIN ASSIGNMENTS

この章の図の中には互換性のないダイオード、トランジスタ、ICが併記されていることがあります。部品を交換するときには必ず部品表を参照してください。
等価回路はICメーカーのData Bookに従いました。

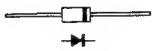
The chart in this section may sometimes show diodes, transistors, and ICs that are not interchangeable. When replacing a component, be sure to refer to the parts list.

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

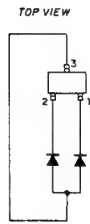
Diode	PAGE	Transistor	PAGE	Transistor	PAGE	IC	PAGE
10E-2	17-3	2SA1115	17-4	DTC114TK	17-5	74F00SJ	17-6
1S2836	17-3	2SA1141	17-4	DTC123JK	17-5		
1SS119	17-3	2SA1213	17-4	DTC123JU	17-5	AM26LS30PC	17-6
1SS303	17-3	2SA1610	17-4	DTC144EF	17-5	AM26LS32PC	17-6
1SS304	17-3	2SA1611	17-4	DTC144EK	17-5		
1SV160	17-3	2SA473	17-4	DTC144EU	17-5	BX-3914	17-6
		2SA768	17-4				
DA204U	17-3	2SA812	17-4	FMS2	17-5	CX20188	17-7
DM211A	17-3			FMW2	17-5	CX22017	17-6
		2SB1115	17-4	FMW7	17-5	CX23065A	17-6
FC52M	17-3	2SB1115A	17-4	FMW8	17-5	CX7991	17-7
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FC54M	17-3	2SB624	17-4			CXA1370Q	17-8
		2SB731	17-4	IMX1	17-5	CXA1450M	17-9
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		2SC2120	17-4			CXD1132Q	17-11
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RD??M	17-3	2SC2785	17-4			CXD1171M	17-12
		2SC2873Y	17-4			CXD1175AM	17-13
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SB01-05CP	17-3	2SC3735	17-4			CXD2202Q	17-14
		2SC4176	17-4			CXD2207Q	17-15
TLG256	17-3	2SC4177	17-4			CXD2209Q	17-16
TLY256	17-3	2SC4178	17-4			CXD8117P	17-16
TLUG154	17-3	2SC4213A	17-4			CXD8152Q	17-18
		2SC4213B	17-4			CXD8160Q	17-19
						CXD8161AQ	17-17
		2SD1615A	17-4			CXD8165Q	17-20
		2SD1623	17-4			CXD8176AQ	17-21
		2SD596	17-4			CXD8243AM	17-21
		2SD773	17-4			CXD8310M	17-22
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						CXK5816M-12L	17-25
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		2SK852	17-5				
		2SK94	17-5			L78M09T	17-27
						L79M09T	17-27
		DTA114TU	17-5			LA7205	17-27
		DTA123JK	17-5			LM2903DQ	17-27
		DTA123JU	17-5			LM2903M	17-27
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		DTA144EU	17-5				

SEMICONDUCTOR INDEX

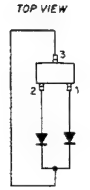
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LM311PS	17-27	RC7805FA	17-34	UPC324G2	17-43
LM358P	17-27	RC7809FA	17-34	UPC358G2	17-27
M50747H-XXXSP	17-28	RC78L05A	17-35	UPC393G2	17-27
M51957BL	17-28	RC78L09A	17-35	UPC4557C	17-43
M51958BL	17-28	RC7905FA	17-34	UPC4558C	17-34
M54516P	17-28	RC7909FA	17-34	UPC4570G2	17-43
M54523P	17-29	RC79L05A	17-34	UPC4572C	17-43
M54532P	17-29	RC79L09A	17-34	UPC4574G2	17-43
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MC14024BCP	17-31	SN74HC02ANS	17-35		
MC14046BF	17-31	SN74HC04ANS	17-36		
MC14051BF	17-31	SN74HC08ANS	17-36		
MC14052BF	17-31	SN74HC11ANS	17-36		
MC14053BCP	17-32	SN74HC11NS	17-36		
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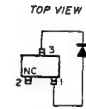
10E-2
1SS119



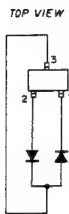
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1SS303



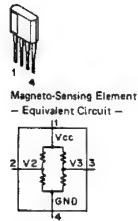
1SS304



1SV160



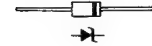
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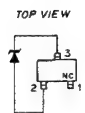
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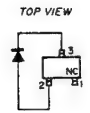
FC52M
FC53M
FC54M



RD ? ? ESB ?



RD ? ? M



SB007-03CP



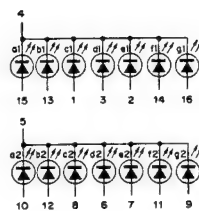
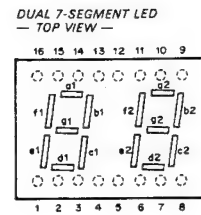
SB01-05CP



GL-5HD8 ; RED



GL480 ; INFRARED



LB402VK (ROHM)



LI25RP ; RED



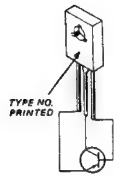
TLG256 ; GREEN
TLY256 ; YELLOW



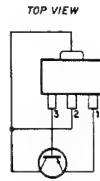
TLUG154 ; GREEN



2SA1115

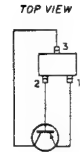


2SA1141
2SB731



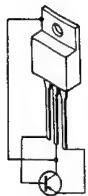
TOP VIEW

2SA1213
2SB1115
2SB1115A
2SB1121
2SB798



TOP VIEW

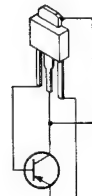
2SA1610
2SA1611
2SA812
2SB624



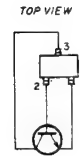
2SA473
2SA768



2SB733



2SB962



TOP VIEW

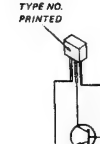
2SC1623
2SC3735
2SC4176
2SC4177
2SC4178
2SC4213A
2SC4213B
2SD596



2SC1627
2SC2120

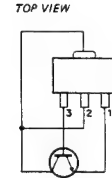


2SC2458



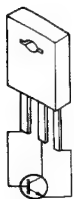
TYPE NO.
PRINTED

2SC2785



TOP VIEW

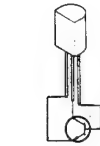
2SC2873Y
2SD1615A
2SD1623



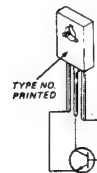
2SC3012



2SD773
2SD774

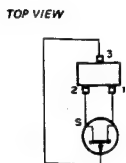


2SD788



TYPE NO.
PRINTED

2SD809

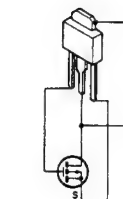


TOP VIEW

2SJ106



2SJ122

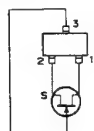


2SJ132



2SJ143

TOP VIEW

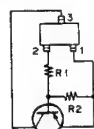


2SK209
2SK613
2SK852
2SK94



2SK614

TOP VIEW

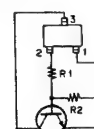


DTA114TU ($R1 = 10K, R2 = \infty$)
DTA123JK ($R1 = 2.2K, R2 = 47K$)
DTA123JU ($R1 = 2.2K, R2 = 47K$)
DTA144EU ($R1 = 47K, R2 = 47K$)



DTA144ES ($R1 = 47K, R2 = 47K$)

TOP VIEW



DTC114TK ($R1 = 10K, R2 = \infty$)
DTC123JK ($R1 = 2.2K, R2 = 47K$)
DTC123JU ($R1 = 2.2K, R2 = 47K$)
DTC144EK ($R1 = 47K, R2 = 47K$)
DTC144EU ($R1 = 47K, R2 = 47K$)

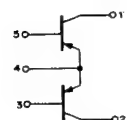


DTC144EF ($R1 = 47K, R2 = 47K$)

TOP VIEW



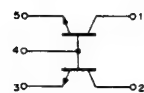
FMS2



TOP VIEW



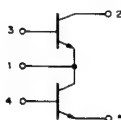
FMW2



TOP VIEW



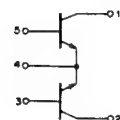
FMW7



TOP VIEW



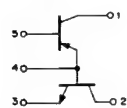
FMW8



TOP VIEW



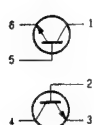
FMY3



- TOP VIEW -

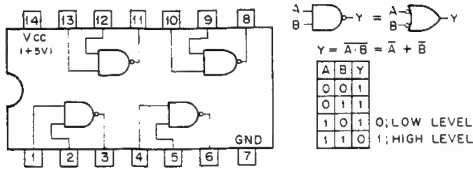


IMX1

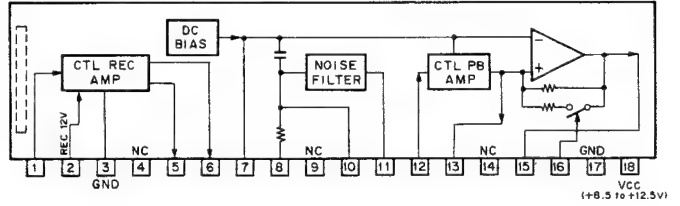


PT480F

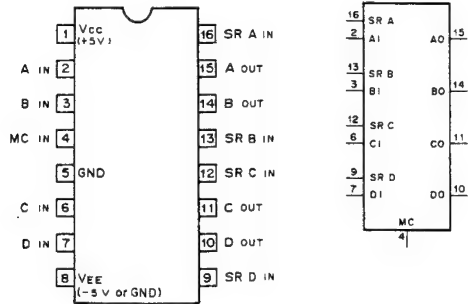
74F00SJ (NS) FLAT PACKAGE
TTL 2-INPUT POSITIVE-NAND GATE
- TOP VIEW -



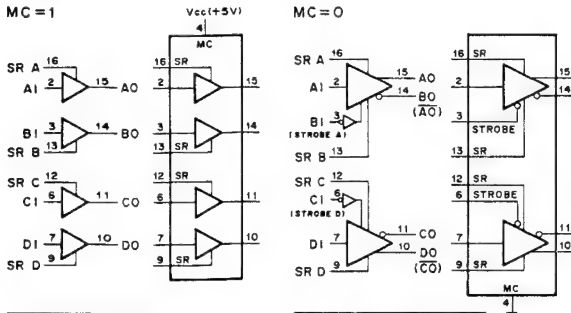
BX3914 (SONY)
CTL REC/PB AMPLIFIER
- PRINTED SIDE -



AM26LS30PC (ADVANCED MICRO DEVICES)
LINE DRIVER
- TOP VIEW -



MC: MODE CONTROL
SR: SLEW RATE CONTROL



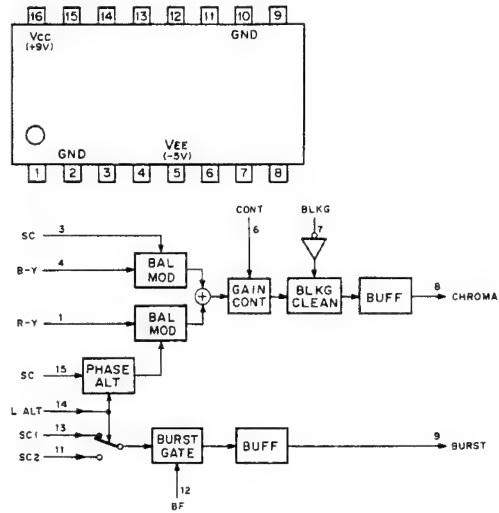
INPUTS	OUTPUTS
MC A TO D A TO D	
1 0	0
1 1	1

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE

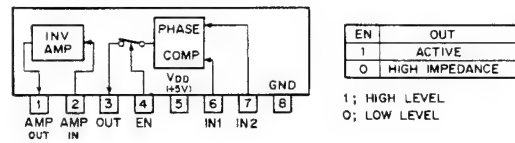
INPUTS	OUTPUTS
MC STROBE A D A D B C	
0 0 0 0	0 1
0 0 1 1	1 0
0 1 X	HI-Z HI-Z

0: LOW LEVEL
1: HIGH LEVEL
HI-Z: HIGH IMPEDANCE

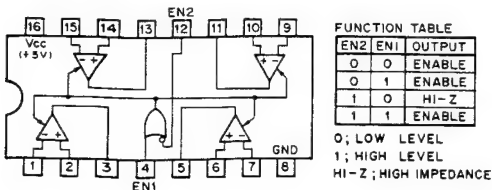
CX22017 (SONY)
VIDEO SIGNAL PROCESSOR
- TOP VIEW -



CX23065A (SONY)
N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER
- PRINTED SIDE VIEW -

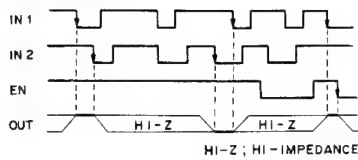


AM26LS32PC (ADVANCED MICRO DEVICES)
HIGH SPEED DIFFERENTIAL LINE RECEIVER
- TOP VIEW -



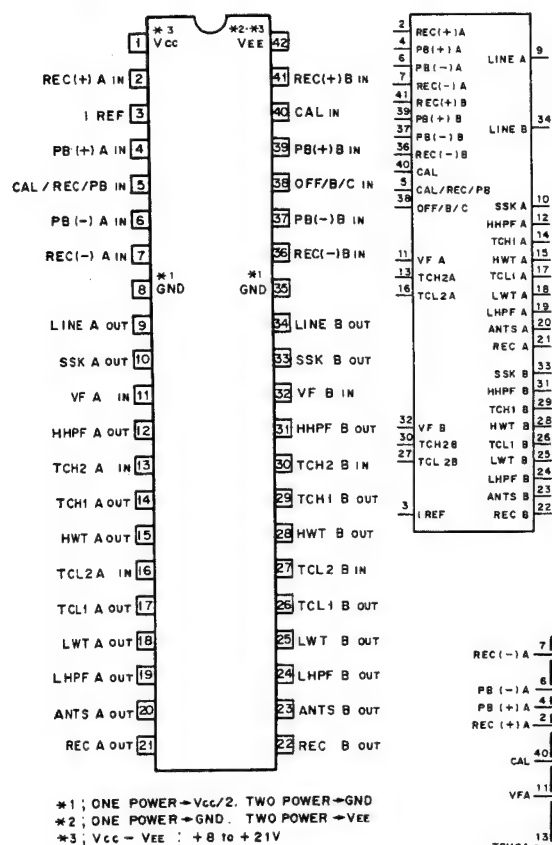
	SENSE	INPUT VOLT
LS32	±200mV	±7V
LS33	±500mV	±15V

TIMING CHART

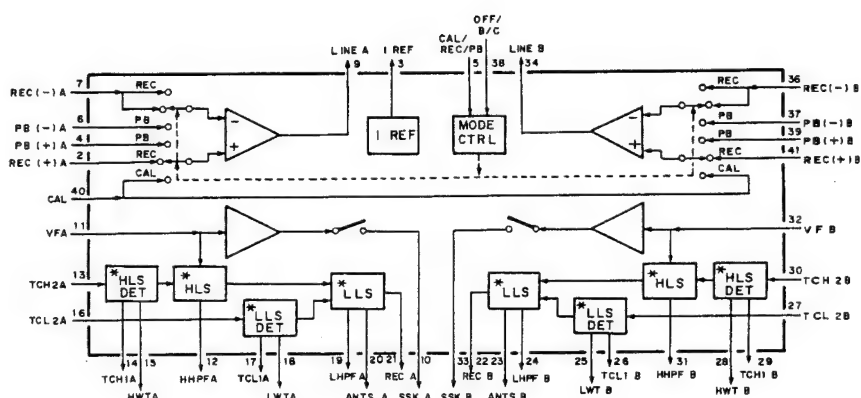


CX20188 (SONY)

DOLBY B TYPE AND C TYPE, NOISE REDUCTION SYSTEM
- TOP VIEW -

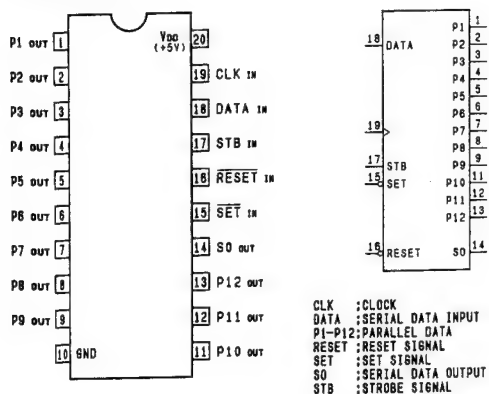


ANTS : ANTI SATURATION
CAL : CALIBRATION
CAL/REC/PB : CALIBRATION/REC/ PB SELECT
HHPF : HLS HIGH PASS FILTER
HWT : HLS WAITING
I REF : REFERENCE SOURCE CURRENT
LHPF : LLS HIGH PASS FILTER
LWT : LLS WAITING
OFF/B/C : DOLBY NR OFF/B-TYPE/C-TYPE SELECT
SSK : SPECTRAL SKEWING SWITCH
TCH : HLS DETECTOR TIME CONSTANT
TCL : LLS DETECTOR TIME CONSTANT
VF : ENCODE INPUT
*HLS : HIGH LEVEL STAGE
*LLS : LOW LEVEL STAGE

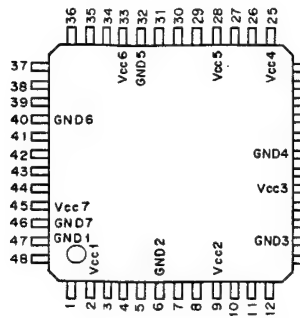


CX7991 (SONY)

C-MOS 12-BIT SERIAL TO PARALLEL CONVERTER
- TOP VIEW -



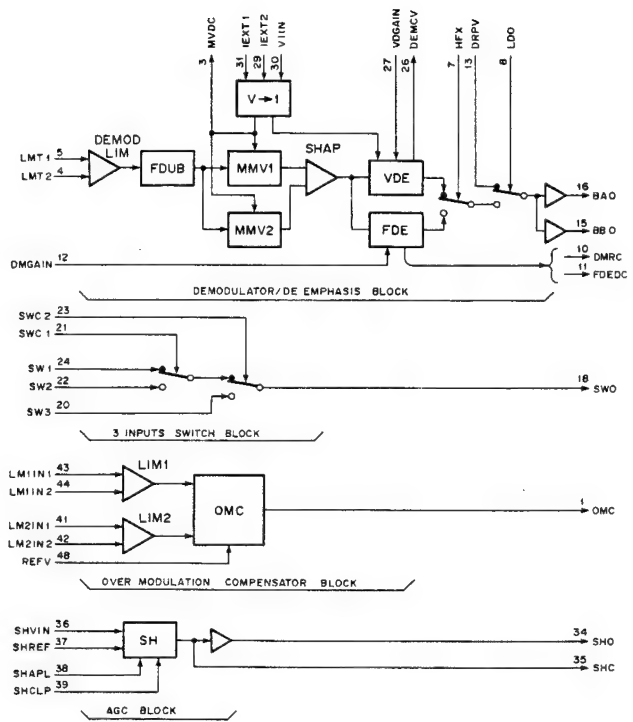
CXA1370Q (SONY)

DEMODULATOR/OVER MODULATION COMPENSATOR
- TOP VIEW -

(Vcc = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	OMC	13	I	DRPV	25	-	Vcc4	37	I	SHREF
2	-	Vcc1	14	-	GND3	26	O	DEMCV	38	I	SHAPL
3	O	MVDC	15	O	BBO	27	I	VDGAIN	39	I	SHCLP
4	I	LMT2	16	O	BAO	28	-	Vcc5	40	-	GND6
5	I	LMT1	17	-	Vcc3	29	I	IEXT2	41	I	LM2IN1
6	-	GND2	18	O	SWO	30	I	VIIN	42	I	LM2IN2
7	I	HFX	19	-	GND4	31	I	IEXT1	43	I	LM1IN1
8	I	LDO	20	I	SW3	32	-	GND5	44	I	LM1IN2
9	-	Vcc2	21	I	SWC1	33	-	Vcc6	45	-	Vcc7
10	O	DMRC	22	I	SW2	34	O	SHO	46	-	GND7
11	O	FDDEC	23	I	SWC2	35	O	SHC	47	-	GND1
12	I	DMGAIN	24	I	SW1	36	I	SHVIN	48	I	REFV

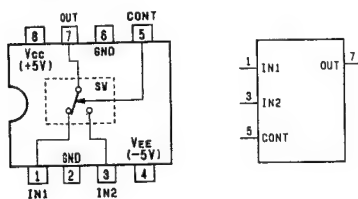
Vcc1, GND1: FOR OVER MODULATION COMPENSATOR
Vcc2, GND2: FOR DEMODULATOR
Vcc3, GND3: FOR BUFFER
Vcc4, GND4: FOR 3 INPUT SWITCH
Vcc5, GND5: FOR DEMODULATOR
Vcc6, GND6: FOR SAMPLE HOLD
Vcc7, GND7: FOR LIMITER



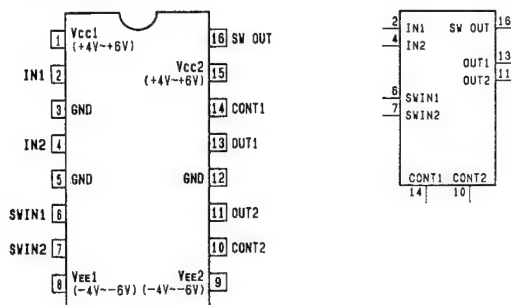
5	LMT1	16	BAO
4	LMT2	15	BBO
31	IEXT1		
29	IEXT2		
30	VIIN		
27	VDGAIN	26	DEMCV
12	DMGAIN	10	DMRC
13	DRPV	11	FDDEC
7	HFX		
8	LDO	3	MVDC
43	LM1IN1	1	OMC
44	LM1IN2		
41	LM2IN1		
42	LM2IN2		
48	REFV		
36	SHVIN	34	SHO
37	SHREF	35	SHC
38	SHAPL		
39	SHCLP		
24	SW1	19	SWO
22	SW2		
20	SW3		
21	SWC1		
23	SWC2		

INPUT		
DMGAIN	: FOR RESISTOR	
DRPV	: VIDEO SIGNAL	
HFX	: SWITCH CONTROL	
IEXT1, 2	: FOR RESISTOR	
LM1, 2	: OVER MODULATION COMPENSATE LIMITER	
LMT1, 2	: DEMODULATE LIMITER	
LDO	: SWITCH CONTROL	
REFV	: REFERENCE VOLTAGE	
SHAPL	: FOR RESISTOR	
SHCLP	: SAMPLE HOLD PULSE	
SHREF	: SAMPLE HOLD REFERENCE VOLTAGE	
SHVIN	: SAMPLE HOLD DEMODULATE VIDEO	
SW1-3	: 3 INPUT SWITCH	
SWC1, 2	: 3 INPUT SWITCH CONTROL	
VDGAIN	: GAIN CONTROL VOLTAGE	
VIIN	: V-I CONTROL VOLTAGE	
OUTPUT		
BAO, BBO	: DEMODULATOR	
DEMCV	: VARIABLE DEEMPHASIS CONSTANT	
DMRC	: FIXED DEEMPHASIS CONSTANT	
FDDEC	: FIXED DEEMPHASIS DECOUPLING	
MVDC	: MONOMULTI DECOUPLING	
OMC	: OVER MODULATION COMPENSATOR	
SHC	: SAMPLE HOLD CAPACITY	
SHO	: SAMPLE HOLD	
SWO	: 3 INPUT SWITCH	

CXA1450M (SONY) FLAT PACKAGE

VIDEO SIGNAL SWITCH
- TOP VIEW -

CXA1451M (SONY)

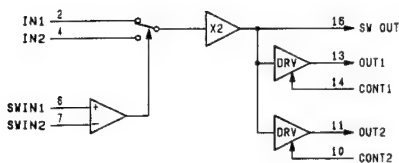
WIDEBAND VIDEO SWITCH
- TOP VIEW -

INPUT

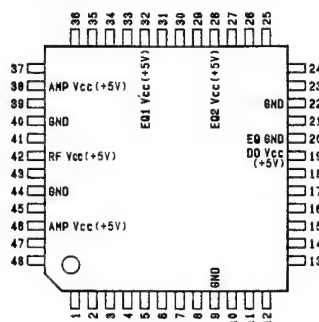
CONT1, 2 : POWER SAVE CONTROL PIN OF DRV.1 AND DRV.2
 INT1, 2 : 1/2-CHANNEL INPUT PIN
 SWIN1, 2 : IN1/IN2 PINS SWITCH CONTROL PIN

OUTPUT

OUT1, 2 : OUTPUT PIN OF DRV.1/2
 SWOUT : OUTPUTS IN1 PIN OR IN2 PIN WHICH HAS BEEN
 SELECTED BY SWITCH.

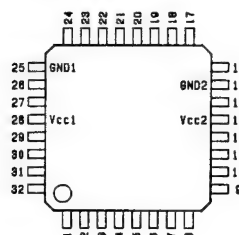


CXA1479Q (SONY)

PB RF SIGNAL PROCESSOR FOR VTR
- TOP VIEW -

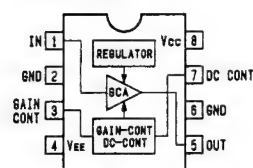
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	CHSW CONT	13	I	OFF SET1	25	I	EQ2(A)IN	37	O	AB RF OUT
2	I	OFF SET2	14	I	IN A	26	I	EQ2(MAIN)CNT	38	-	AMP Vcc
3	O	AOR OUT	15	I	EQSEL	27	I	EQ2(B)IN	39	I	RF(A)IN
4	I	ENV(B)	16	I	IN B	28	-	EQ2 Vcc	40	-	GND
5	I	ENV(A)	17	-	DCPL1	29	O	EQ1 OUT	41	I	RF(B)IN
6	O	TH OUT	18	O	DO EQ	30	I	EQ1 CONT	42	-	RF Vcc
7	I	TH CONT	19	-	DO Vcc	31	I	EQ1(B)IN	43	I	RF(C)IN
8	O	DO OUT	20	-	EQ GND	32	-	EQ1 Vcc	44	-	GND
9	O	REF	21	O	EQ2(MAIN)OUT	33	I	EQ1(A)IN	45	I	RF(D)IN
10	I	ENV IN	22	-	GND	34	I	GAIN CNT	46	-	AMP Vcc
11	O	DET OUT2	23	O	EQ2(SUB)OUT	35	O	SWD RF	47	O	CD RF OUT
12	O	DET OUT1	24	I	EQ2(SUB)CNT	36	I	RF LEVEL	48	I	MODE CONT

CXA1480Q (SONY)

THROUGH RATE LIMITER
- TOP VIEW -

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	TH IN	17	O	SRL OUT
2	I	SRL CONT	18	I	SRL IN
3	I	SRL C	19	I	SRL R IN
4	I	SRL REF	20	O	SRL R OUT
5	I	LIM H	21	O	VCA OUT
6	I	LIM L	22	I	RG1 IN
7	I	SW IN2	23	O	RG1 OUT
8	I	SH IN	24	O	AMP OUT
9	O	SH C	25	-	GND1
10	O	SH OUT	26	I	AMP IN
11	I	SH PLS	27	I	AMP REF
12	I	SW PLS	28	-	Vcc1
13	-	Vcc2	29	I	RG2 IN
14	O	SW OUT	30	I	VCA CONT
15	-	GND2	31	O	COMP OUT
16	I	SW IN1	32	O	COMP SG

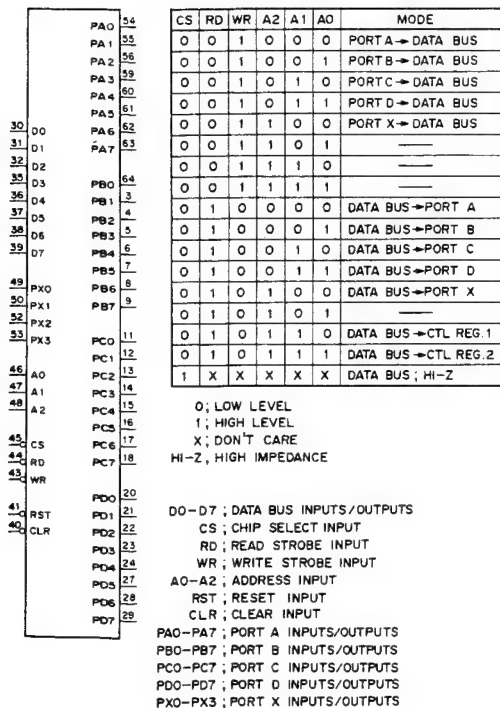
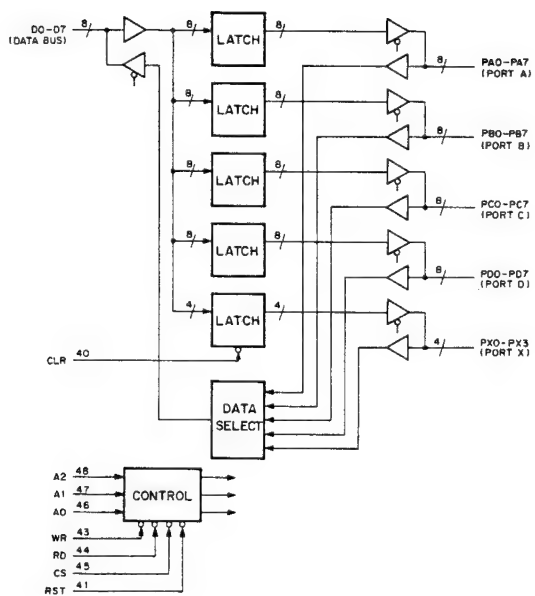
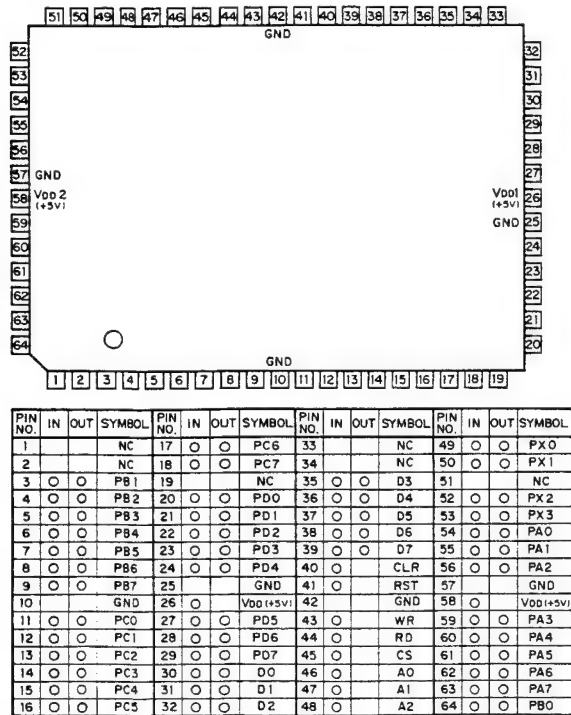
CXA1521M (SONY)

GAIN CONTROL AMP
- TOP VIEW -

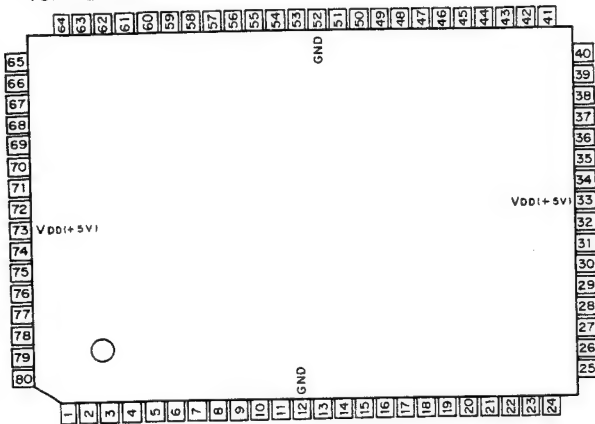
CXD1095Q (SONY) FLAT PACKAGE

C-MOS I/O PORT EXPANDER

- TOP VIEW -



CXD1132Q (SONY) FLAT PACKAGE
C-MOS TIME CODE GENERATOR/READER
- TOP VIEW -



PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I/O	DB5	17	I	CCS	33	-	V _{DD}	49	I	C1MI	65	I	TCIN
2	I/O	DB4	18	I	CWR	34	I/O	DA1	50	O	C1MO	66	O	DCLK
3	I/O	DB3	19	I	CRD	35	I/O	DA0	51	O	C2MO	67	O	DATA
4	I/O	DB2	20	O	INT	36	I	DSP	52	-	GND	68	O	RFLD
5	I/O	DB1	21	I	STBY	37	O	DTSE	53	O	CKO	69	O	RDSY
6	I/O	DB0	22	I	TST1	38	O	VRCK	54	I	CKIN	70	O	LPR
7	O	STOP	23	I	TST2	39	I	SLLM	55	I	SLCK	71	O	BUSY
8	I/O	D7	24	I	TST3	40	O	RVDO	56	I	GCSI	72	I	BA2
9	I/O	D6	25	I	PON	41	I	RCSI	57	I	S1	73	-	V _{DD}
10	I/O	D5	26	I	FLD1	42	I	VITC	58	O	VTGO	74	I	BA1
11	I/O	D4	27	I	RTIM	43	I	FRMI	59	O	VTO	75	I	BA0
12	-	GND	28	I	CDIR	44	O	FRMO	60	O	LTCO	76	I	BWR
13	I/O	D3	29	I	CTLI	45	O	GLSY	61	I	LRES	77	I	BRD
14	I/O	D2	30	I/O	DWR	46	I	HDI	62	I	VCEI	78	I	BCS
15	I/O	D1	31	I/O	DA3	47	O	HDO	63	O	LSHO	79	I/O	BD7
16	I/O	D0	32	I/O	DA2	48	O	VDO	64	I	C2MI	80	I/O	BD6

SIGNAL DESCRIPTION

BA0-BA2

B ADDRESS INPUTS

BCS B CHIP ENABLE INPUT ("L":ENABLE)

BD0-BD7

B DATA I/O

BRD B READ INPUT ("L":READ)

BUSY B BUSY OUTPUT

BWR B WRITE INPUT ("L":WRITE)

CKIN SYSTEM CLOCK INPUT

C1MO CLOCK 1 OUTPUT (CKIN x 1/16)

C2MI LTC READ CLOCK INPUT

C2MO CLOCK 2 OUTPUT (CKIN x 1/8)

CCS C CHIP ENABLE INPUT ("L":ENABLE) (when DSP is low)

ADDRESS LATCH ENABLE INPUT ("L":ENABLE) (when DSP is high)

CDIR CTL DIRECTION INPUT

CKIN SYSTEM CLOCK INPUT

VIDEO SIGNAL FORMAT	CKIN
SMPTE 29.97HZ 525LINE	14.318MHZ
EBU 25HZ 625LINE	14.500MHZ

CKO CLOCK OUTPUT

CRD C READ INPUT ("L":READ)

CTLI CTL SIGNAL INPUT

CWR C WRITE INPUT ("L":WRITE)

DO-D7 DATA I/O (when DSP is low)/

ADDRESS INPUTS

DA0-DA3

E ADDRESS INPUTS (when DSP is high)

D ADDRESS OUTPUT (when DSP is low)

DATA DEMODULATED SERIAL DATA OUTPUT

DCLK DEMODULATED CLOCK OUTPUT

DSP DISPLAY BUS SELECT INPUT

DSP controls CCS, DA0-DA3 and DVR.

VITC DATA SEARCH FLAG OUTPUT

WRITE ENABLE OUTPUT ("L":ENABLE) (when DSP is low)

E ADDRESS 4 INPUT (when DSP is high)

ADDRESS BUS INPUT

FLD1 FIELD REFERENCE INPUT ("L":FLD 1)

FRMI FRAME SIGNAL INPUT

FRMO FRAME SIGNAL OUTPUT

GCSI COMPOSITE SYNC INPUT

GLSY LOST SYNC FLAG OUTPUT

HDI HORIZONTAL SYNC INPUT

HDO HORIZONTAL SYNC OUTPUT

INT INTERRUPT REQUEST OUTPUT

LPR LTC READ REQUEST OUTPUT

LRES LTC COUNTER RESET INPUT ("L":RESET)

LSHO SYNCHRONOUS SIGNAL OUTPUT

LTCO LTC SIGNAL OUTPUT

PON SYSTEM RESET INPUT ("L":PON)

RCSI COMPOSITE SYNC INPUT

RDSY READ SYNC WORD DATA OUTPUT

RESS RESET INPUT ("L":RTIM)

RFLD FIELD DATA OUTPUT

RTIM TIME ADDRESS RESET INPUT ("L":RESET)

RVDO VITC READ DATA OUTPUT

S1 SIGNAL FORMAT SELECT INPUT

"H":NTSC/PAL-M 29.94HZ 525LINE

"L":PAL/SECAM 25HZ 625LINE

SLCK SELECT CLOCK INPUT

SLCK	"L"	"H"
CKIN	14.318MHZ	14.5MHZ
SPEC	SMPTE	EBU
	SMPTE	EBU

SLLM READ SIZE SELECT INPUT

STBY STANDBY READ FLAG INPUT

STOP STOP OUTPUT ("L":STOP)

TCIN LONGITUDINAL TIME AND CONTROL CODE INPUT

TST1-TST3 TEST INPUT

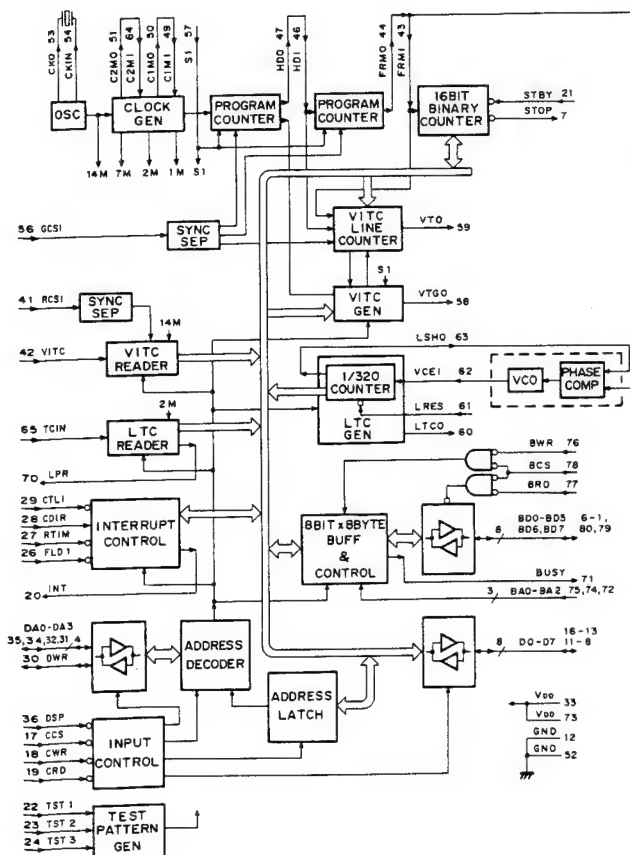
VCEI LTC CLOCK INPUT

VDO HORIZONTAL SYNC DRIVE OUTPUT

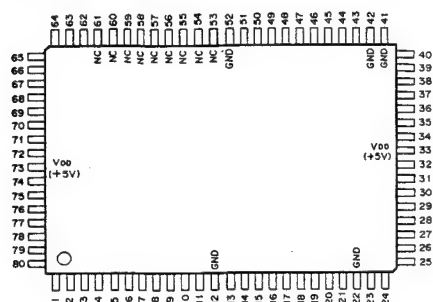
VITC VITC SIGNAL INPUT

VTGO VITC GATE SIGNAL OUTPUT

VTO VITC SIGNAL OUTPUT ("H":VITC)

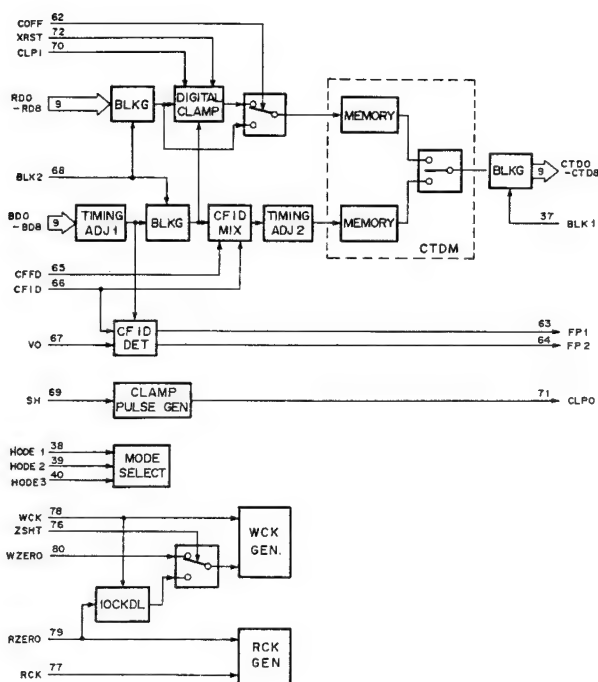






C-MOS VIDEO SIGNAL PROCESSOR FOR BETACAM
- TOP VIEW -



PIN ASSIGNMENT

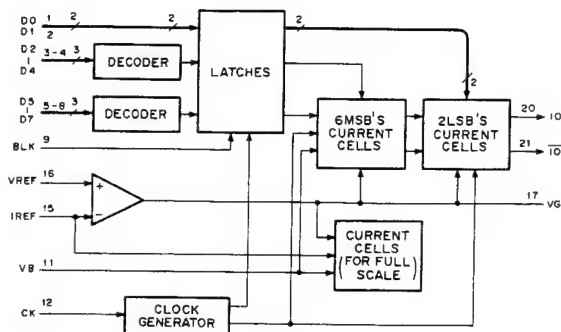
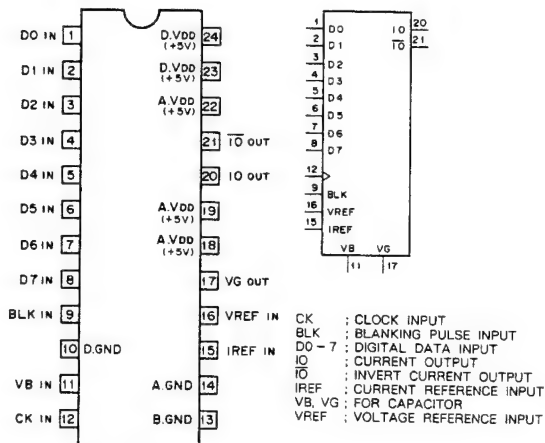
Pin NO.	I/O	SIGNAL	Pin NO.	I/O	SIGNAL	Pin NO.	I/O	SIGNAL	Pin NO.	I/O	SIGNAL
1	↓	R00	21	↓	BD8	41		NC	61		NC
2	↓	RD1	22	—	Vss (GND)	42	—	Vss (GND)	62	↓	COFF
3	↓	RD2	23	0	TM0	43	0	CTD0	63	↓	FP1
4	↓	RD3	24	0	TM1	44	0	CTD1	64	↓	FP2
5	↓	RD4	25	0	TM2	45	0	CTD2	65	↓	CFD
6	↓	RD5	26	0	TM3	46	0	CTD3	66	↓	CFID
7	↓	RD6	27	0	TM4	47	0	CTD4	67	↓	VO
8	↓	RD7	28	0	TM5	48	0	CTD5	68	↓	BLK2
9	↓	RD8	29	0	TM6	49	0	CTD6	69	↓	SH
10	↓	TSL2	30	0	TM7	50	0	CTD7	70	↓	CLP1
11	↓	TSL3	31	0	TM8	51	0	CTD8	71	0	CLP0
12	—	Vss (GND)	32	0	TM9	52	—	Vss (GND)	72	↓	XRST
13	↓	BD0	33	↓	Vbb(+5V)	53		NC	73	↓	Vbb(+5V)
14	↓	BD1	34	↓	TM05	54		NC	74	↓	TST1
15	↓	BD2	35	↓	TMEN	55		NC	75	↓	TST2
16	↓	BD3	36	↓	TSL1	56	NC	NC	76	↓	ZSHST
17	↓	BD4	37	↓	BLK1	57		NC	77	↓	RCK
18	↓	BD5	38	↓	MODE1	58	NC	NC	78	↓	WCK
19	↓	BD6	39	↓	MODE2	59	NC	NC	79	↓	RZERO
20	↓	BD7	40	↓	MODE3	60		NC	80	↓	WZERO



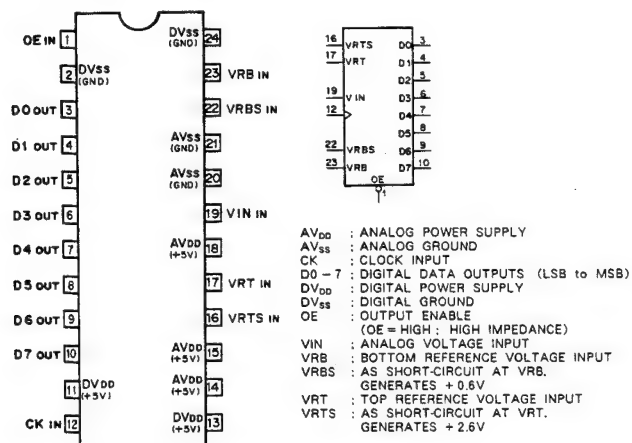
1	R0Q	CTD0	43	RDD-RD8	:R-Y DATA INPUTS
2	R01	CTD1	44	BDD-BD8	:B-Y DATA INPUTS
3	RD2	CTD2	45	COFF	:DIGITAL CLAMP CIRCUIT CONTROL INPUT
4	RD3	CTD2	46	XRST	:DIGITAL CLAMP CIRCUIT RESET PULSE INPUT
5	RD4	CTD3	46	CLPI	:CLAMP PULSE INPUT FOR DIGITAL CLAMP
6	RD5	CTD4	47	CFFD	:FIELD SIGNAL INPUT FOR COLOR FRAMING ID MIX
7	RD6	CTD5	48	CFID	:PULSE INPUT FOR COLOR FRAMING ID MIX
8	RD7	CTD6	49	VO	:COLOR FRAMING DETECT CIRCUIT RESET PULSE INPUT
9	RD7	CTD7	50	SH	:TRIGGER INPUT FOR CLPO OUTPUT
9	RD8	CTD8	51	BLK1, BLK2	:BLKG PULSE INPUTS
				TSL1	:MEMORY SELECT INPUT IN TEST MODE
				TSL2, TSL3	:TEST INPUTS
13	BD0	FP1	63	TMO0	:TEST MODE CONTROL INPUT
14	BD1	FP2	64	TMEN	:MEMORY ADD CONTROL INPUT IN TEST MODE
15	BD2	CLPO	71	TS1, TS2	:DIGITAL CLAMP CIRCUIT TEST CONTROL INPUTS
16	BD3			WCK	:WRITE CLOCK INPUT 
17	BD4	TMO	23	RCK	:READ CLOCK INPUT 
18	BD5	TM1	24	WZERO	:WRITE ZERO INPUT 
19	BD6	TM2	25	RZERO	:READ ZERO INPUT 
20	BD7	TM3	26	ZSHT	:INTERNAL/EXTERNAL WZERO SELECT INPUT
21	BD8	TM4	27	CTDM-GT08	:CTDM DATA OUTPUTS
				FP1, FP2	:COLOR FRAMING DETECT PULSE OUTPUTS
62	COFF	TM6	29	CLPO	:CLAMP PULSE OUTPUT
72	XRST	TM7	30	TM0-TM9	:DIGITAL CLAMP CIRCUIT TEST SIGNAL OUTPUTS
73	CLPI	TM8	31		MODE1-MODE3; MODE SELECT INPUTS
80	CEFD	TM9	32		

MODE1	1				1			
MODE2	1		0		1		0	
MODE3	1	0	1	0	1	0	1	0
nfh	910fh	858fh	909fh	X	908fh	864fh	1135fh	TCLR

0: LOW LEVEL 1: HIGH LEVEL

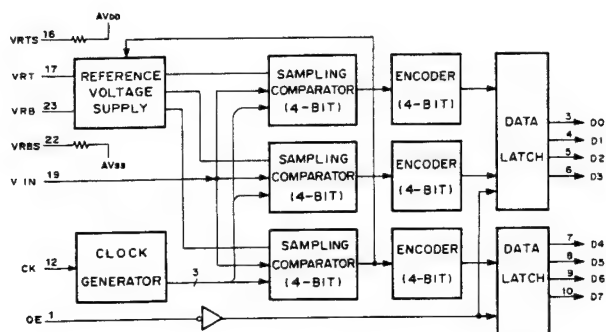


CXD1175AM (SONY) FLAT PACKAGE
C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER
- TOP VIEW -

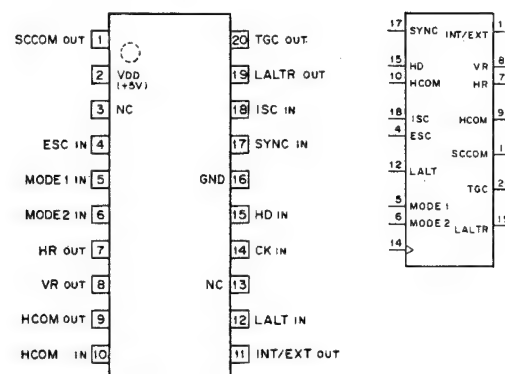


STEP	INPUT SIGNAL VOLTAGE	DATA OUTPUTS							
		D7	D6	D5	D4	D3	D2	D1	D0
0	0V (VRT)	1	1	1	1	1	1	1	1
1	0.01V	1	1	1	1	1	1	1	0
...
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
...
255	2.7V (VRB)	0	0	0	0	0	0	0	0

0 : LOW LEVEL
1 : HIGH LEVEL

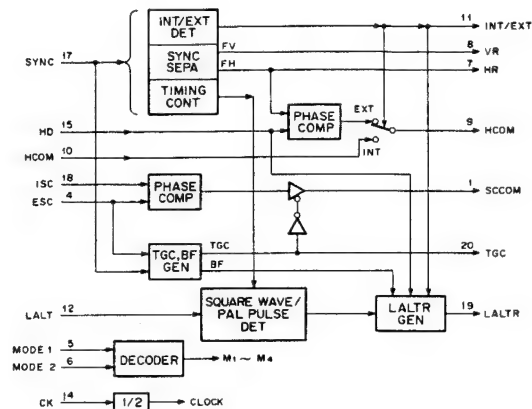


CXD1216M (SONY) FLAT PACKAGE
C-MOS GENLOCK DRIVER
- TOP VIEW -



INPUT	MODE	SYSTEM
MODE1 MODE2		
0 0	M1	PAL-VBS
1 0	M2	PALM-VBS
0 1	M3	PAL, SECAM-VS/SC/LALT
1 1	M4	NTSC-VBS, NTSC-VS/SC/LALT

0 : LOW LEVEL
1 : HIGH LEVEL



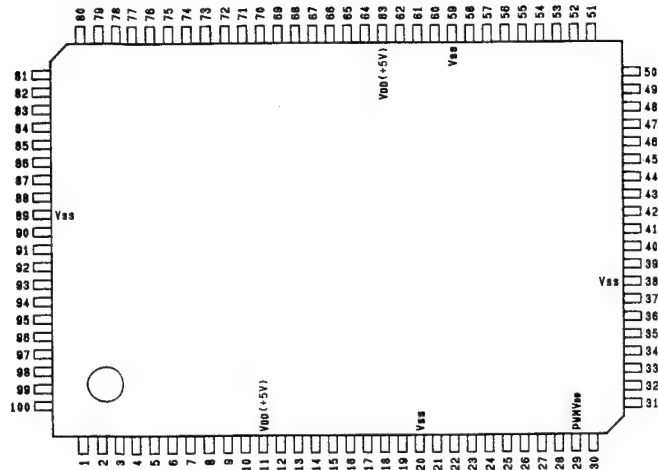
INPUT
CK : 4fsc CLOCK INPUT
ESC : SC/COLOR BURST
HCOM : PHASE COMPARE FROM CXD1217
HD : H DRIVE FROM CXD1217
ISC : SUBCARRIER FROM CXD1217
LALT : LALT FROM REFERENCE SIGNAL GENERATOR
MODE1,2 : SYSTEM SELECT
SYNC : SYNC FROM REFERENCE SIGNAL GENERATOR

OUTPUT
HCOM : PHASE COMPARETOR HR WITH HD
HR : fh OF SYNC SEPARATE
INT/EXT : INTERNAL/EXTERNAL SPECIFIED
LALTR : LINE CHANGE RESET
SCCOM : PHASE COMPARETOR ESC WITH ISC
TGC : TRISTATE CONTROL
VR : fv OF SYNC SEPARATE

CXD2202Q (SONY)

SERVO IC

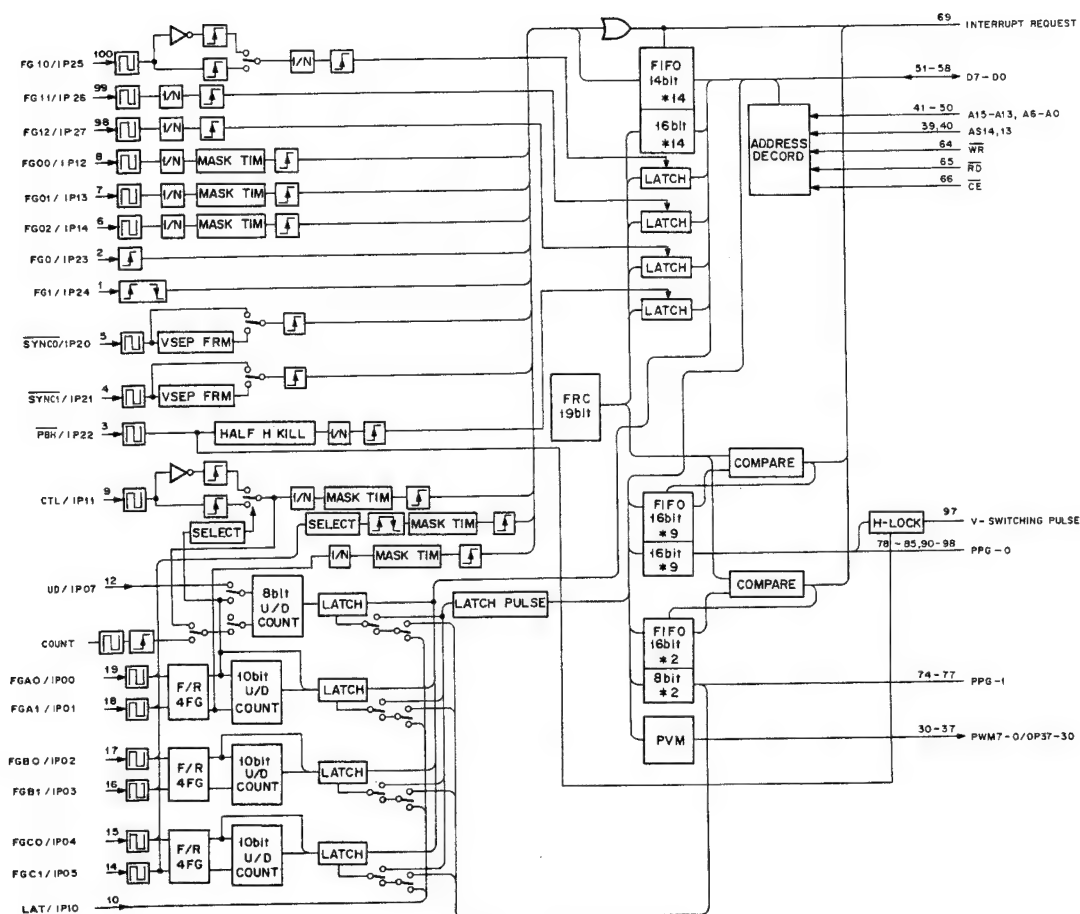
- TOP VIEW -



(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	FG1/IP24	26	I/O	IOP2	51	I/O	D7	76	O	PPG11/OP21
2	I	FG0/IP23	27	I/O	IOP1	52	I/O	D6	77	O	PPG10/OP20
3	I	PBH/IP22	28	I/O	IOP0	53	I/O	D5	78	O	PPG0F/OP17
4	I	SYNCT/IP21	29	-	PWM VDD	54	I/O	D4	79	O	PPG0E/OP16
5	I	SYNCO/IP20	30	O	PWM7/OP37	55	I/O	D3	80	O	PPG0D/OP15
6	I	FG02/IP14	31	O	PWM6/OP36	56	I/O	D2	81	O	PPG0C/OP14
7	I	FG01/IP13	32	O	PWM5/OP35	57	I/O	D1	82	O	PPG0B/OP13
8	I	FG00/IP12	33	O	PWM4/OP34	58	I/O	D0	83	O	PPG0A/OP12
9	I	CTL/IP11	34	O	PWM3/OP33	59	-	VSS	84	O	PPG09/OP11
10	I	LAT/IP10	35	O	PWM2/OP32	60	I	RES	85	O	PPG08/OP10
11	-	VDD	36	O	PWM1/OP31	61	I	MD1	86	O	CLKO
12	I	UD/IP07	37	O	PWM0/OP30	62	I	MD0	87	I	EXTAL
13	I	CCLK/IP06	38	-	VSS	63	-	VDD	88	O	XTAL
14	I	FGC1/IP05	39	I	AS14	64	I	WR	89	-	VSS
15	I	FGC0/IP04	40	I	AS13	65	I	RD	90	O	PPG07/OP07
16	I	FGB1/IP03	41	I	A15	66	I	CE	91	O	PPG06/OP06
17	I	FGB0/IP02	42	I	A14	67	O	IREQ2	92	O	PPG05/OP05
18	I	FGA1/IP01	43	I	A13	68	O	IREQ1	93	O	PPG04/OP04
19	I	FGA0/IP00	44	I	A6	69	O	IREQ0	94	O	PPG03/OP03
20	-	VSS	45	I	A5	70	I	FXSEL	95	O	PPG02/OP02
21	I/O	IOP7	46	I	A4	71	O	OP26	96	O	PPG01/OP01
22	I/O	IOP6	47	I	A3	72	O	EXCS1/OP25	97	O	PPG00/OP00
23	I/O	IOP5	48	I	A2	73	O	EXCS0/OP24	98	I	FG12/IP27
24	I/O	IOP4	49	I	A1	74	O	PPG13/OP23	99	I	FG11/IP26
25	I/O	IOP3	50	I	A0	75	O	PPG12/OP22	100	I	FG10/IP25

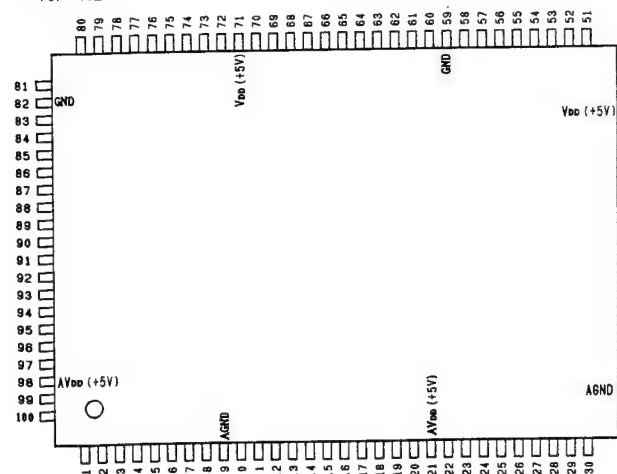
41	A15	07	51	INPUT	
42	A14	06	52	A0 - A15	: ADDRESS BUS
43	A13	05	53	AS13, AS14	: SELECTING CONDITION OF ADDRESS DECODER
44	A6	04	54	CCLK	: 8-BIT COUNTER CLOCK INPUT
45	A5	03	55	CE	: CHIP ENABLE
46	A4	02	56	CTL	: RESOLUTION 2.5MHz WITH EDGE SELECT FUNCTION.
47	A3	01	57	EXTAL	: WITH FREQUENCY DIVISION MASK TIMER
48	A2	00	58		: CRYSTAL OSCILLATION OR EXTERNAL CLOCK INPUT
49	A1			FG00 - FG02	: RESOLUTION 2.5MHz
50	A				: FREQUENCY DIVISION ENABLE RESOLUTION 2.5MHz.
51					: WITH FREQUENCY DIVISION MASK TIMER
52				FG1	: RESOLUTION 2.5MHz BOTH EDGES
53	AS14	09P6	21	FG10	: EDGE SELECTION ENABLE RESOLUTION 10MHz
54	AS13	09P5	22	FG11, 12	: FREQUENCY DIVISION ENABLE RESOLUTION 10MHz
55		09P4	23	FGA0	: PERFORMS FORWARD/REVERSE ROTATION
56		09P3	24		: DETECTION AND 4FG COUNT (UP/DOWN) BY FGA0
57	FG12/IP27	09P2	25		: AND FGA1 10 BITS. UP/DOWN IS MADE BY
58	FG11/IP26	09P1	26	FGA1	: CONTROLLING THE UP/DOWN OF 8-BIT COUNTER.
59	FG10/IP25	09P0	27		: 4FG PERFORMS FREQUENCY DIVISION AND FRC
60	FG02/IP14		28		: CAPTURE THROUGH MASK TIMER.
61	FG01/IP13	PWM7/OP37	36		*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
62	FG00/IP12	PWM6/OP36	31	FGB0	: DETECTS BOTH EDGES AND PERFORM THE FRC
63	FG1/IP24	PWM5/OP35	32		: CAPTURE THROUGH THE MASK TIMER.
64	FG0/IP23	PWM4/OP34	33	FGB1	: PERFORMS FORWARD/REVERSE ROTATION
65		PWM3/OP33	34		: DETECTION AND 4FG COUNT BY FGB0 AND FGB1.
66	SYNCT/IP21	PWM2/OP32	35	FGC0	*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
67	SYNCO/IP20	PWM1/OP31	36		: DETECTS BOTH EDGES AND PERFORM THE FRC
68		PWM0/OP30	37	FGC1	: CAPTURE THROUGH THE MASK TIMER.
69					: PERFORMS FORWARD/REVERSE ROTATION
70					: DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
71					*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
72					: DETECTS BOTH EDGES AND PERFORM THE FRC
73					: CAPTURE THROUGH THE MASK TIMER.
74					: PERFORMS FORWARD/REVERSE ROTATION
75					: DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
76					*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
77					: DETECTS BOTH EDGES AND PERFORM THE FRC
78					: CAPTURE THROUGH THE MASK TIMER.
79					: PERFORMS FORWARD/REVERSE ROTATION
80					: DETECTION AND 4FG COUNT BY FGB0 AND FGB1.
81					*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
82					: DETECTS BOTH EDGES AND PERFORM THE FRC
83					: CAPTURE THROUGH THE MASK TIMER.
84					: PERFORMS FORWARD/REVERSE ROTATION
85					: DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
86					*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
87					: DETECTS BOTH EDGES AND PERFORM THE FRC
88					: CAPTURE THROUGH THE MASK TIMER.
89					: PERFORMS FORWARD/REVERSE ROTATION
90					: DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
91					*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
92					: DETECTS BOTH EDGES AND PERFORM THE FRC
93					: CAPTURE THROUGH THE MASK TIMER.
94					: PERFORMS FORWARD/REVERSE ROTATION
95					: DETECTION AND 4FG COUNT BY FGC0 AND FGC1.
96					*1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
97					: DETECTS BOTH EDGES AND PERFORM THE FRC
98					: CAPTURE THROUGH THE MASK TIMER.
99					: PERFORMS FORWARD/REVERSE ROTATION
100					: DETECTION AND 4FG COUNT BY FGC0 AND FGC1.



CXD2207Q (SONY)

C-MOS TBC WRITE CLOCK GENERATOR FOR BETACAM

- TOP VIEW -

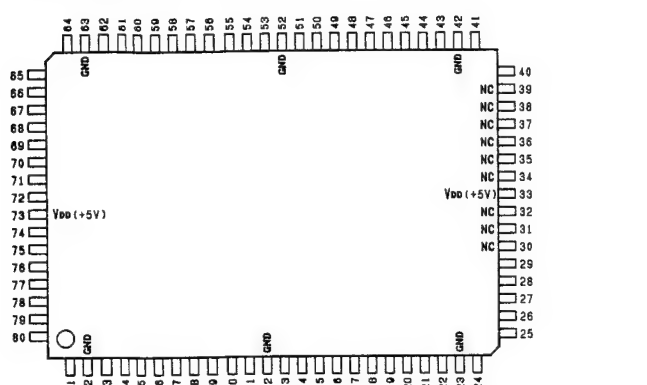


(V_{DD} = AV_{DD} = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	O	SYNC	26	I	FOPO	51	I	PBE	76	I	SVLK
2	I	BLK	27	I	SHOT	52	I	NOS	77	I	SVD
3	I	VIN4	28	I	BCPI	53	I	SPD	78	I	OFF
4	I	REF3	29	O	BCPO	54	I	R20	79	O	LOCK
5	I	VIN3	30	I	EOPX	55	I	FBID	80	O	CS
6	O	VOT3	31	O	EOPD	56	I	DO	81	O	MO0
7	I	AI3	32	—	AGND	57	I	GBD	82	—	GND
8	I	ACPI	33	I	AI2	58	I	GAT	83	O	MO1
9	—	AGND	34	I	DOPI	59	—	GND	84	O	MO2
10	I	ACPX	35	I	DOPX	60	I	GH	85	O	MO3
11	O	ACPO	36	O	DOPO	61	O	WCP	86	O	MO4
12	I	SMPL	37	I	VCOI	62	O	ACP	87	O	MO5
13	I	CHIN	38	I	VCEN	63	O	TOUT	88	O	MO6
14	I	BOPX	39	I	MD1	64	O	AZ2	89	O	MO7
15	I	BOPO	40	I	MD2	65	O	AZ1	90	I	AMD
16	I	SHC1	41	I	INT	66	O	WZ	91	I	VIN2
17	I	SHC2	42	I	YC	67	I	CKN	92	I	REF1
18	I	SHZ1	43	I	TMOD	68	O	GCK	93	I	REF2
19	O	ER1	44	I	TCK	69	O	ACK	94	I	VIN1
20	O	ER2	45	I	TDAT	70	O	XCK	95	I	AOP1
21	—	AVDD	46	I	BTS	71	—	VDD	96	I	AOPX
22	I	COPI	47	I	REST	72	O	CH	97	O	AOPD
23	I	COPX	48	—	VDD	73	O	SSH	98	—	AVDD
24	O	COPO	49	I	DDF	74	O	DCP	99	I	AI1
25	I	FOFX	50	O	SHO	75	I	ERR	100	I	CCPI

CXD2209Q (SONY)

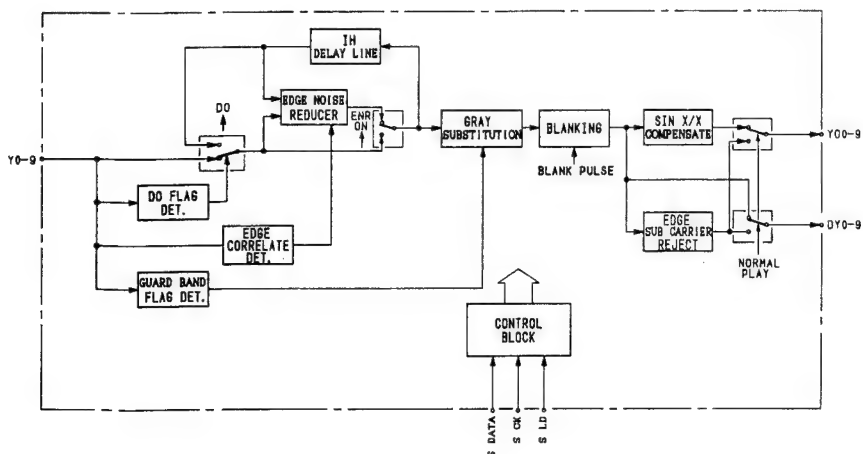
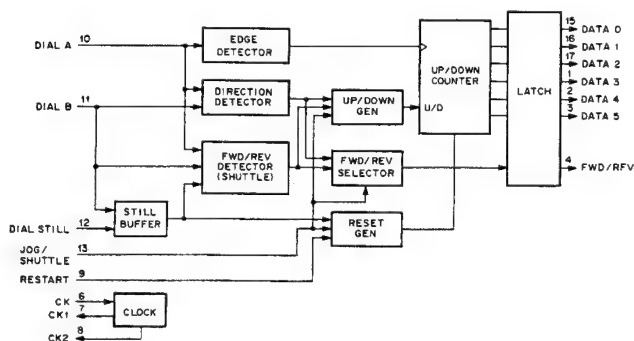
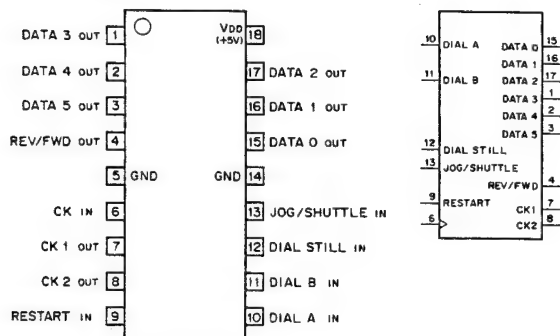
C-MOS DIGITAL EDGE NOISE REDUCER
- TOP VIEW -



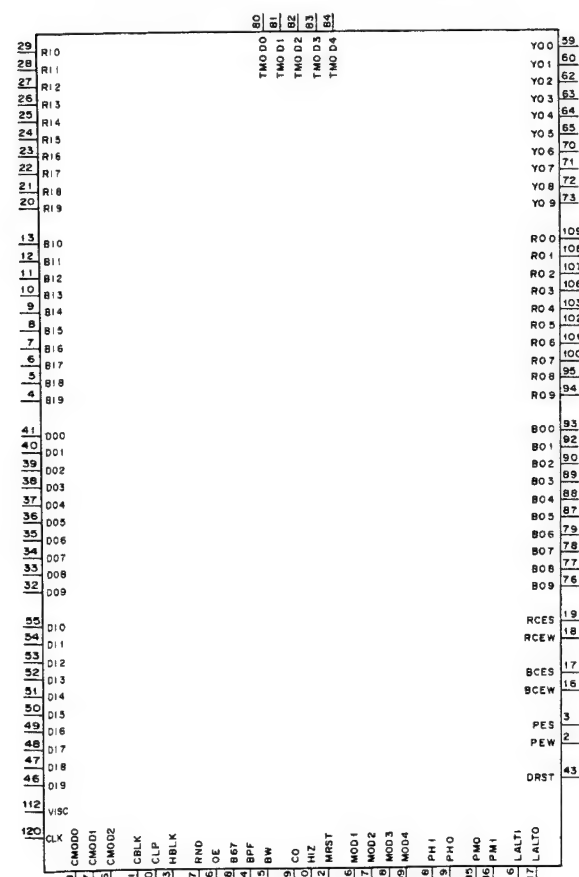
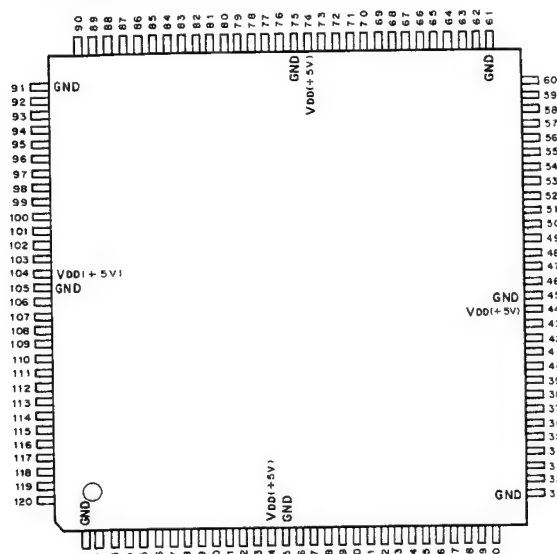
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	Y0	21	I	L: DT	41	O	Y00	61	O	DY8
2	-	GND	22	I	D0	42	-	GND	62	O	DY9
3	I	CK	23	-	GND	43	O	Y01	63	-	GND
4	I	L: BID	24	I	D1	44	O	Y02	64	I	OE2
5	I	L: CBLK	25	I	ENS1	45	O	Y03	65	I	DSTB
6	I	L: VBLK	26	I	ENS0	46	O	Y04	66	I	SLD
7	I	H SYN	27	I	MOD1	47	O	Y05	67	I	SDAT
8	I	VISC	28	I	MOD2	48	O	Y06	68	I	SCK
9	I	L: X30	29	I	MODS	49	O	Y07	69	O	STP
10	I	L: SW1	30	-	-	50	O	Y08	70	O	S OUT
11	I	L: GRSW	31	-	-	51	O	Y09	71	I	Y9
12	-	GND	32	-	-	52	-	GND	72	I	Y8
13	I	NROF	33	-	VDD	53	O	DY0	73	-	VDD
14	I	EOFF	34	-	-	54	O	DY1	74	I	Y7
15	I	L: DEF	35	-	-	55	O	DY2	75	I	Y6
16	I	MUT1	36	-	-	56	O	DY3	76	I	Y5
17	I	MUT2	37	-	-	57	O	DY4	77	I	Y4
18	I	DIGT	38	-	-	58	O	DY5	78	I	Y3
19	I	X75	39	-	-	59	O	DY6	79	I	Y2
20	I	AOFF	40	I	OE1	60	O	DY7	80	I	Y1

CXD8117P (SONY)

C-MOS DIAL DATA DECODER
- TOP VIEW -



CXD8161AQ (SONY) FLAT PACKAGE

CMOS DIGITAL Y/C SEPARATOR & CHROMA DECODER
- TOP VIEW -

* 1)	CMOD2	CMOD1	CMOD0	MODE
0	0	0	0	0-1 FIX
0	0	0	1	1-2 FIX
0	1	0	0	0-1-2 FIX
0	1	0	1	BPF FIX
1	0	0	0	0-1/1-2/0-1 ADAPTIVE
1	0	1	0	0-1/1-2/1-2 ADAPTIVE
1	1	0	0	0-1/1-2/0-1-2 ADAPTIVE
1	1	1	1	0-1/1-2/0-1-2/BPF ADAPTIVE

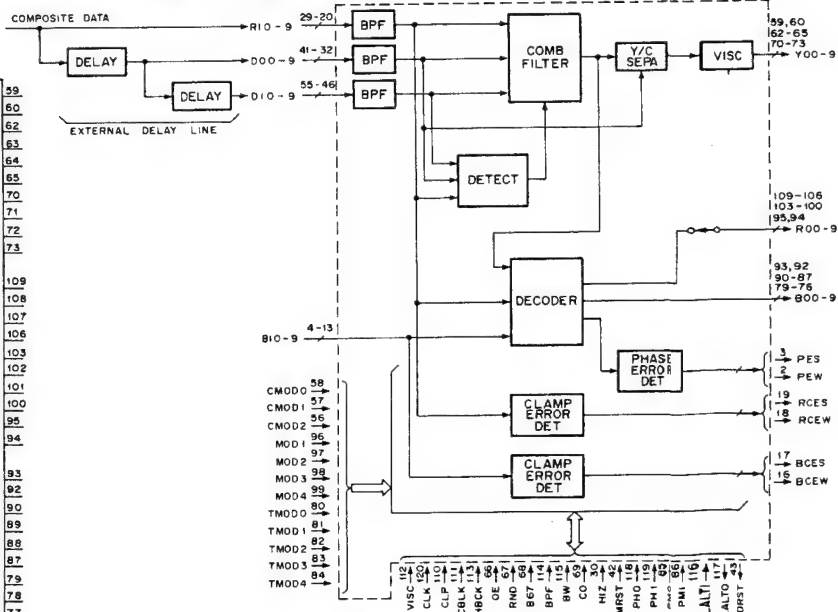
0 : LOW LEVEL 0-1 : UPPER 2 LINE COMB FILTER
1 : HIGH LEVEL 1-2 : LOWER 2 LINE COMB FILTER
0-1-2 : UPPER/LOWER 3 LINE COMB FILTER

* 2)	MODE2	MODE1	MODE
0	0	0	PAL
0	1	0	PAL-M
1	0	0	SECAM
1	1	0	NTSC
0	0	1	COMPONENT
0	1	0	COMPOSITE
1	0	1	CTDM
1	1	1	CHROMA

0 : LOW LEVEL
1 : HIGH LEVEL

(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	GND	31	-	GND	61	-	GND	91	-	GND
2	O	PEW	32	I	DO9	62	O	YO2	92	O	BO1
3	O	PES	33	I	DO8	63	O	YO3	93	O	BO0
4	I	BI9	34	I	DO7	64	O	YO4	94	O	RO9
5	I	BI8	35	I	DO6	65	O	YO5	95	O	RO8
6	I	BI7	36	I	DO5	66	I	OE	96	I	HOD1
7	I	BI6	37	I	DO4	67	I	RND	97	I	HOD2
8	I	BI5	38	I	DO3	68	I	B67	98	I	HOD3
9	I	BI4	39	I	DO2	69	I	CO	99	I	HOD4
10	I	BI3	40	I	DO1	70	O	YO6	100	O	RO7
11	I	BI2	41	I	DO0	71	O	YO7	101	O	RO6
12	I	BI1	42	I	MRST	72	O	YO8	102	O	RO5
13	I	BI0	43	O	DRST	73	O	YO9	103	O	RO4
14	-	VDD	44	-	VDD	74	-	VDD	104	-	VDD
15	-	GND	45	-	GND	75	-	GND	105	-	GND
16	O	BCEW	46	I	DI9	76	O	BO9	106	O	RO3
17	O	BCES	47	I	DI8	77	O	BO8	107	O	RO2
18	O	RCEW	48	I	DI7	78	O	BO7	108	O	RO1
19	O	RCES	49	I	DI6	79	O	BO6	109	O	RO0
20	I	RI9	50	I	DI5	80	I	TMOD0	110	I	CLP
21	I	RI8	51	I	DI4	81	I	TMOD1	111	I	CBLK
22	I	RI7	52	I	DI3	82	I	TMOD2	112	I	YISC
23	I	RI6	53	I	DI2	83	I	TMOD3	113	I	HBLK
24	I	RI5	54	I	DI1	84	I	TMOD4	114	I	BPF
25	I	RI4	55	I	DI0	85	I	PM0	115	I	BW
26	I	RI3	56	I	CMOD2	86	I	PM1	116	I	LALT1
27	I	RI2	57	I	CMOD1	87	O	BO5	117	O	LALTO
28	I	RI1	58	I	CMOD0	88	O	BO4	118	I	PH1
29	I	RI0	59	O	Y00	89	O	BO3	119	I	PH0
30	I	HIZ	60	O	Y01	90	O	BO2	120	I	CLK

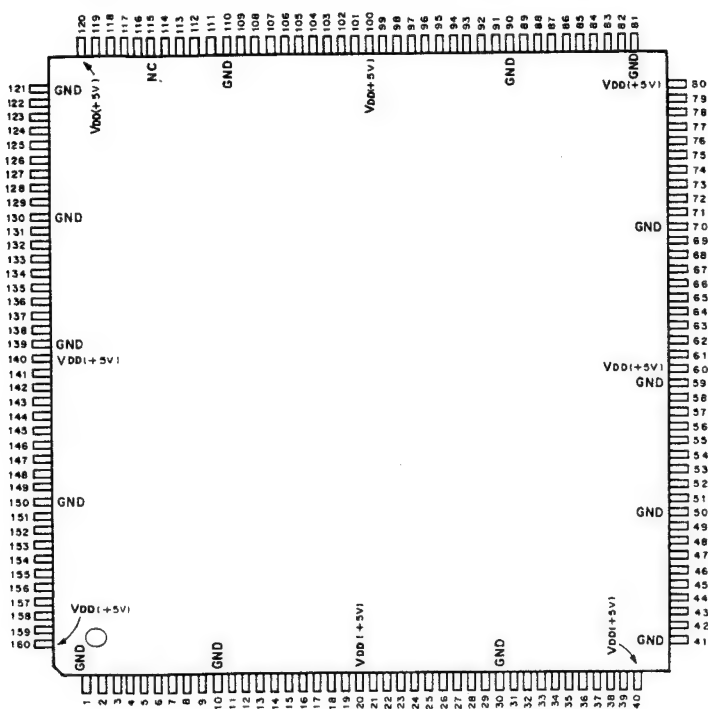


INPUT
B67 : CORRELATION DETECT SENSITIVITY SELECT (H: 6 BITS/L: 7 BITS)
BIO - BI9 : B-Y DATA (COMPONENT MODE)
BPF : BAND PASS FILTER SELECT
BW : COMPOSITE SIGNAL THROUGHPUT CONTROL
CBLK : CHROMA BLANKING PULSE
CLK : CLOCK
CLP : CLAMP PULSE
* 1) CMOD0 - D2 : Y/C CORRECTION MODE SELECT
CO : CHROMA DECODE CONTROL
DI0 - DI9 : 2H DELAY DATA (COMPOSITE MODE) for NTSC
4H DELAY DATA (COMPOSITE MODE) for PAL/PAL-M
1H DELAY DATA (COMPOSITE MODE) for NTSC
2H DELAY DATA (COMPOSITE MODE) for PAL/PAL-M
HBLK : H BLANKING PULSE
HIZ : PULSE CONTROL
LALT1 : LINE ALTERNATE
* 2) MODE1 - MODE4 : MODE SELECT
MRST : RESET
OE : OUTPUT ENABLE
PH0, PH1 : REFERENCE PHASE for CHROMA DECODE and VISC GENERATION
PEW : PHASE ERROR WIDTH
PM0, PM1 : PHASE SHIFT CONTROL
R00 - R09 : COMPOSITE DATA (COMPOSITE MODE)
R-Y DATA (COMPONENT MODE)
CHROMA DATA (CHROMA MODE)
RND : OUTPUT ROUND OFF SELECT
TMOD0 - D4 : TEST MODE/BPF STAGE SELECT
VISC : VERTICAL INTERVAL SUB-CARRIER CONTROL

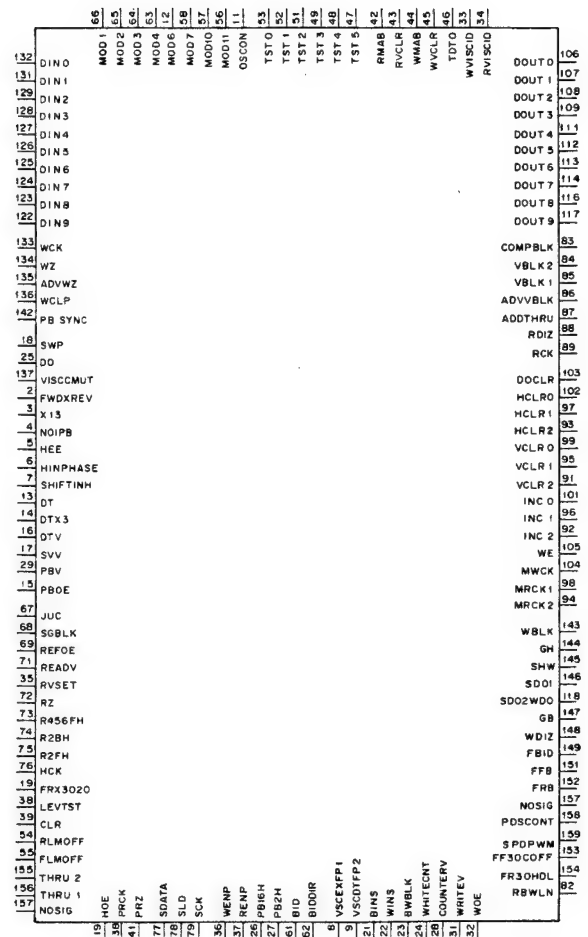
OUTPUT
BCES : B-Y CLAMP ERROR SENSE
BCEW : B-Y CLAMP ERROR WIDTH
BO0 - BO9 : B-Y DATA (B 09: MSB)
DRST : EXTERNAL DELAY LINE RESET
LALTO : LINE ALTERNATE
PES : PHASE ERROR SENSE
PEW : PHASE ERROR WIDTH
RCES : R-Y CLAMP ERROR SENSE
RCEW : R-Y CLAMP ERROR WIDTH
RO0 - RO9 : R-Y DATA (R 09: MSB)
Y00 - Y09 : Y DATA (Y 09: MSB)

CXD8152Q (SONY) FLAT PACKAGE

C-MOS VIDEO DATA PROCESS/SYNC GUARD/MEMORY CONTROLLER
- TOP VIEW -



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	GND	41	-	GND	81	-	GND	121	-	GND
2	I	FWDXREY	42	I/O	RMAB	82	O	RBWLN	122	I	DIN9
3	I	X13	43	I/O	RYCLR	83	O	COMPLK	123	I	DIN8
4	I	NOIPB	44	I/O	WMAB	84	O	YBLK2	124	I	DIN7
5	I	HEE	45	I/O	WYCLR	85	O	YBLK1	125	I	DIN6
6	I	HINPHASE	46	I/O	TDTO	86	O	ADYYBLK	126	I	DIN5
7	I	SHIFTH	47	I	TST5	87	O	ADDTTHRU	127	I	DIN4
8	O	YSCXEP1	48	I	TST4	88	O	RDIZ	128	I	DIN3
9	O	YSCDTPP2	49	I	TST3	89	O	RCK	129	I	DIN2
10	-	GND	50	-	GND	90	-	GND	130	-	GND
11	I	OSCON	51	I	TST2	91	O	YCLR2	131	I	DIN1
12	I	MOD6	52	I	TST1	92	O	INC2	132	I	DIN0
13	I	DT	53	I	TST0	93	O	HCLR2	133	I	WCK
14	I	DTX3	54	I	RLMOFF	94	O	MRCK2	134	I	WZ
15	I	PBOE	55	I	FLMOFF	95	O	YCLR1	135	I	ADYVWZ
16	I	DTY	56	I	MOD11	96	O	INC1	136	I	WCLP
17	I	SY	57	I	MOD10	97	O	HCLR1	137	I	YISCCMUT
18	I	SWP	58	I	MOD7	98	O	MRCK1	138	I	PRCK
19	I	FRX3020	59	-	GND	99	O	YCLR0	139	-	GND
20	-	VDD	60	-	VDD	100	-	VDD	140	-	VDD
21	O	BINS	61	I/O	BID	101	O	INCO	141	I	PRZ
22	O	WINS	62	I/O	BIDDIR	102	O	HCLR0	142	I	PBSYNC
23	O	BWBLK	63	I	MOD4	103	O	DOCLR	143	O	WBLK
24	O	WHITECNT	64	I	MOD3	104	O	MWCK	144	I/O	GH
25	I	DO	65	I	MOD2	105	O	WE	145	O	SHW
26	I/O	PB16H	66	I	MOD1	106	O	DOUT0	146	I/O	SDO1
27	I/O	PB2H	67	I	JUC	107	O	DOUT1	147	I/O	GB
28	O	COUNTRY	68	I	SGBLK	108	O	DOUT2	148	O	WDIZ
29	I/O	PBY	69	I	REFOE	109	O	DOUT3	149	I/O	FBID
30	-	GND	70	-	GND	110	-	GND	150	-	GND
31	O	WRITEV	71	I	READY	111	O	DOUT4	151	I/O	FFB
32	O	WOE	72	I	RZ	112	O	DOUT5	152	I/O	FRB
33	I/O	WYISCD	73	I	R456FH	113	O	DOUT6	153	O	FF30COFF
34	O	RYISCD	74	I	R2BH	114	O	DOUT7	154	O	FR30HDL
35	I/O	RYSET	75	I	R2FH	115	-	-	155	I	THRU2
36	I/O	WENP	76	I	HCK	116	O	DOUT8	156	I	THRU1
37	I/O	RENP	77	I	SDATA	117	O	DOUT9	157	I/O	NOSIG
38	I	LEVYST	78	I	SLD	118	O	SDO2WDO	158	O	PDSCONT
39	I	CLR	79	I	SCK	119	I	HOE	159	O	SPDPWM
40	-	VDD	80	-	VDD	120	-	VDD	160	-	VDD



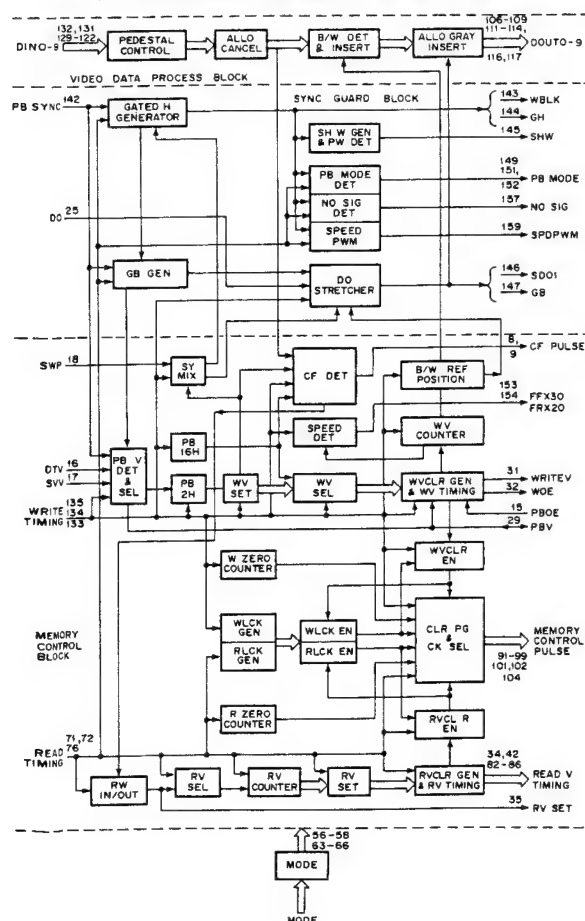
INPUT
ADYVWZ : 66 CLOCK in ADVANCE of WRITE ZERO
CLR : L : CLEAR
DIN0 - DIN9 : INPUT VIDEO DATA 2⁰ - 2⁹
DO : L : DROP OUT PULSE
DT : L : DYNAMIC TRACKING MODE V REFERENCE PULSE
DTV : DYNAMIC TRACKING MODE V REFERENCE PULSE
DTX3 : L : DYNAMIC TRACKING 3 TIMES NORMAL SPEED
FLM OFF : H : FORWARD LIMITER OFF
FRX3020 : MORE THAN 20 or 30 TIMES NORMAL SPEED SELECT SWITCH
FWDXREV : H : FORWARD, L : REVERSE
HCK : READ CLOCK (13.5 or 14.3 MHz)
HEE : H : VIDEO EE
HINPHASE : L : COLOR FRAMING DISCORD
H : COLOR FRAMING IN PHASE
HOE : H : DATA OUTPUT ENABLE
JUC : H : JAPAN, L : USA/CANADA
LEVYST : L : VIDEO LEVEL TEST
MOD1 : H : 525, L : 625
MOD2 : H : NTSC SECAM, L : PAL PAL-M
MOD3 : H : 14.3 MHz, L : 13.5 MHz
MOD4 : H : READ EXPANDER, L : WRITE EXPANDER
MOD6 : L : EXTERNAL PB OUTPUT ENABLE SELECT
MOD7 : H : Y, L : CHROMA
MOD10 : L : Y/C SYNCHRONOUS MODE
MOD11 : H : READ DO PROCESS, L : WRITE DO PROCESS
NOIPB : L : NORMAL PB, DT, EE
OSCON : H : REFERENCE OSCILLATOR ON
PBOE : PB ODD/EVEN FIELD ID (H : ODD)
PB SYNC : SYNC, SEPARATED from PB VIDEO
PRCK : READ CLOCK for WRITE EXPANDER
PRZ : READ ZERO for WRITE EXPANDER
R2BH : READ SYSTEM 2H BLANKING
R2FH : READ SYSTEM 2FH CLOCK
R456FH : READ SYSTEM 4.5 and 6FH CLOCK
RENV : READ SYSTEM REFERENCE V
REFOE : READ SYSTEM ODD/EVEN FIELD ID (H : ODD)
RLMOFF : H : REVERSE LIMITER OFF
RZ : READ REFERENCE EDGE OF MEMORY
SCK : SERIAL CLOCK
SDATA : SERIAL DATA
SGBLK : L : COMPOSITE BLANKING PULSE
SHIFTH : H : SHIFT INHIBIT
SLD : SERIAL STORBE PULSE
SVV : SERVO V REFERENCE
SWP : SWITCHING PULSE
THRU1 : L : CYCLE THROUGH
THRU2 : L : WIDTH THROUGH
TST0 - 5 : TEST MODE
VISCCMUT : PB VISC/CHROMA MUTE
WCK : WRITE CLOCK
WCLP : WRITE CLAMP PULSE
WZ : WRITE ZERO
X13 : L : MORE THAN ±13 TIMES NORMAL SPEED

OUTPUT

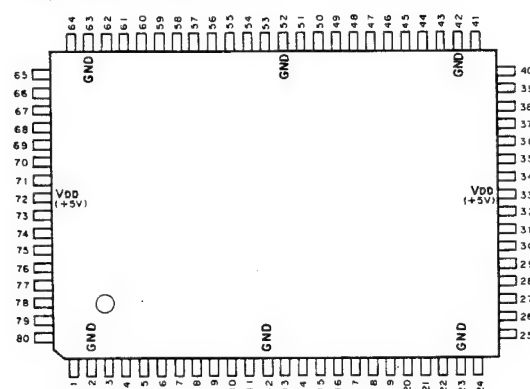
ADDTHRU : YSO → L : ADD THROUGH, CSQ → L : SECAM COMPOSITE V TOP
 ADVBLK : Y : ADD CONTROL
 BINS : H : BLACK REF INSERT PULSE
 BWBLK : L : BLACK & WHITE REF BLANKING PULSE
 COMBLK : L : COMPOSITE BLANKING
 COUNTERV : COUNTER V/RVL
 DOCLR : WRITE H CLEAR PULSE
 DOUTO-9 : OUTPUT VIDEO DATA 2⁰-2⁹
 FF30COFF : L : MORE THAN +30 TIMES NORMAL SPEED/L : CHROMA OFF
 FR30HDL : L : MORE THAN -30 TIMES NORMAL SPEED/L : CHROMA OFF
 /L : COLOR FRAMING DISCORD H SHIFT
 HCLRO : WRITE MEMORY LINE ADDRESS COUNTER CLEAR PULSE
 HCLR1, 2 : READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE
 INCO : WRITE MEMORY LINE ADDRESS COUNTER CLOCK
 INC1, 2 : READ MEMORY LINE ADDRESS COUNTER CLOCK
 MRCK1, 2 : READ MEMORY COUNTER
 MWCK : WRITE MEMORY COUNTER
 PDSCONT : A/D CLAMP CONTROL
 RBWLK : BLACK/WHITE LEVEL DIFFERENCE INSERT LINE
 RCK : READ MEMORY AFTER CLOCK
 RDIZ : READ SYSTEM LINE ALTERNATE
 RVISCID : L : VISC & DET LINE (525 : 11 LINE, 625 : 8 LINE)
 /L : COLOR FRAMING ID BLANKING PULSE (525 : 15 LINE, 625 : 12 LINE)
 SD02WDO : STRETCH ED DO PULSE
 SHW : WINDOW TO DETECT HORIZONTAL SYNC
 SPOPWM : PB SPEED PWM
 VBLK1 : V BLANKING PULSE
 VBLK2 : ENR DOC INHIBIT PULSE
 VCLRO : WRITE MEMORY LINE ADDRESS COUNTER CLEAR PULSE
 VCLR1, 2 : READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE
 VSCDFP2 : H : PB VISC PHASE COMPARISON ENABLE PULSE 1H : CFID (-)
 VSCDFP1 : L : PB VISC EXIST/H : CFID (+)
 WBLK : VIDEO BLANKING USED IN DETECTING HORIZONTAL SYNC.
 WE : L : WRITE ENABLE
 WDIZ : WRITE SYSTEM LINE ALTERNATE
 WHITECNT : WHITE CONTROL
 WINS : H : WHITE REF INSERT PULSE
 WOE : YSO OUTPUT TO PB OE OF CSQ
 WRITEV : YSO OUTPUT TO PB V OF CSQ

INPUT/OUTPUT

BID : L : BIDIREX
 BIDDIR : H : FORWARD, L : REVERSE
 FBID : L : FAST BIDIREX
 FFB : L : FAST FORWARD BIDIREX
 FRB : L : FAST REVERSE BIDIREX
 GB : L : GUARD BAND
 GH : GATED H SYNC
 NOSIG : L : NO SIGNAL
 PB16H : ADVANCE WRITE ZERO RESET, 16 TIMES H RATE
 PB2H : PB V RESET, 2 TIMES H RATE
 PBV : Y NORMAL PB V REFERENCE PULSE
 RENP : L : READ EXTRACT INHIBIT PULSE
 RMAB : READ EXJ RCT PULSE
 RVCLR : READ V CLEAR LINE
 RVSET : YSO OUTPUT TO READ V OF CSQ
 SDO1 : STRETCH ED DO PULSE
 TDTO : TIME CODE DATA
 WENP : L : WRITE EXTRACT INHIBIT PULSE
 WMAB : WRITE EXTRACT PULSE
 WVCLR : WRITE V CLEAR LINE
 WVISCID : L : PB VISC BLANKING PULSE (525 : 11 LINE, 625 : 8 LINE)
 /L : CFID BLANKING PULSE (525 : 15 LINE, 625 : 12 LINE)

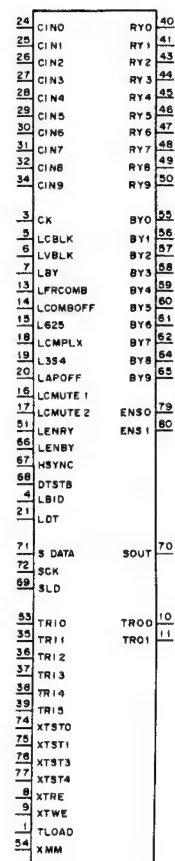


CXD8160Q (SONY) FLAT PACKAGE
 CMOS DIGITAL CHROMA EXPANDER
 - TOP VIEW -



PIN ASSIGNMENT

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	TLOAD	21	I	L : DT	41	O	RY1	61	O	BY6
2	-	GND	22	I	TRST	42	-	GND	62	O	BY7
3	I	CK	23	-	GND	43	O	RY2	63	-	GND
4	I	LBID	24	I	CIN0	44	O	RY3	64	O	BY8
5	I	LCBLK	25	I	CIN1	45	O	RY4	65	O	BY9
6	I	LVBLK	26	I	CIN2	46	O	RY5	66	I	LENBY
7	I	LBV	27	I	CIN3	47	O	RY6	67	I	HSYNC
8	I	XTRE	28	I	CIN4	48	O	RY7	68	I	DTSTB
9	I	XTWE	29	I	CIN5	49	O	RY8	69	I	SLD
10	O	TROO	30	I	CIN6	50	O	RY9	70	O	S DATA
11	O	TRO1	31	I	CIN7	51	I	LENRY	71	I	S DATA
12	-	GND	32	I	CIN8	52	-	GND	72	I	SCK
13	I	LFRCOMB	33	-	VDD	53	I	TROO	73	-	VDD
14	I	LCOMB OFF	34	I	CIN9	54	I	XMM	74	I	XTST0
15	I	L625	35	I	TRI1	55	O	BY0	75	I	XTST1
16	I	LC MUTE1	36	I	TRI2	56	O	BY1	76	I	XTST2
17	I	LC MUTE2	37	I	TRI3	57	O	BY2	77	I	XTST3
18	I	LC MPLX	38	I	TRI4	58	O	BY3	78	-	-
19	I	L354	39	I	TRI5	59	O	BY4	79	O	ENS0
20	I	LAP OFF	40	O	RY0	60	O	BY5	80	O	ENS1



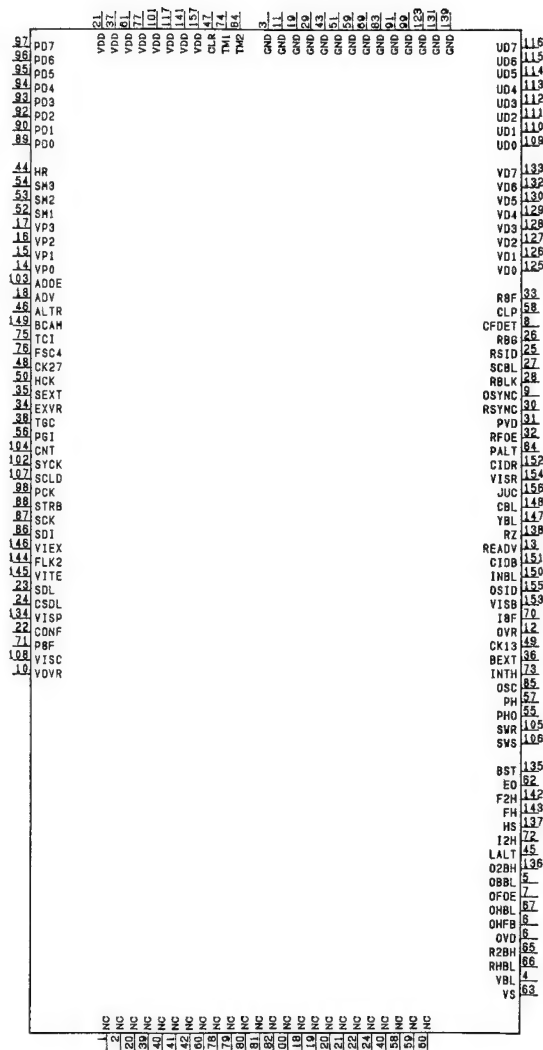
INPUT

CIN0 - CIN9 : COMPLEXED CHROMA DATA (10 bit)
 CK : SYSTEM CLOCK
 DTSTB : TEST MODE BY-R/Y STROBE
 HSYNC : HORIZONTAL SYNC
 L354 : L : COMPRESS BY 3/4
 L625 : LIMITER LEVEL (H : 12.5%, L : 6.5%)
 LAP OFF : L : SIN (X) / X CORRECTION OFF
 LBID : L : BIDIREX
 LBV : COMPLEXED CHROMA DATA POSITION (H : R-Y, L : B-Y)
 LCBLK : COMPOSITE BLANKING
 LCOMB OFF : L : COMB FILTER OFF MODE
 LCMPLEX : L : COMPLEX
 LC MUTE1, 2 : L : CHROMA DATA MUTE
 LDT : L : DYNAMIC TRACKING MODE
 LENBY : BY ENABLE
 LENRY : R-Y ENABLE
 LFRCOMB : L : COMB FILTER ON MODE
 LVBLK : V BLANKING
 SCK : SERIAL CLOCK
 S DATA : SERIAL DATA
 SLD : SERIAL LATCH PULSE
 TLOAD : TEST MODE
 TRI0 - TRI5 : TEST MODE
 TRST, XMM : TEST MODE
 XTRE : TEST MODE
 XTST0 - 3 : TEST MODE
 XTWE : TEST MODE

OUTPUT

BY0 - BY9 : BY CHROMA DATA or COMPLEXED CHROMA DATA
 ENS0, 1 : COMPRESS CHROMA EDGE DATA
 RY0 - RY9 : R-Y CHROMA DATA or COMPLEXED DATA for D1
 SOUT : SERIAL DATA
 TROO, 1 : TEST MODE

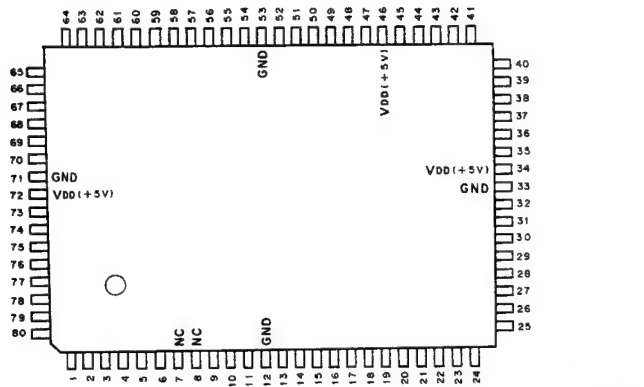
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	—	NC	41	—	NC	81	—	NC	121	—	NC
2	—	NC	42	—	NC	82	—	NC	122	—	NC
3	—	GND	43	—	GND	83	—	GND	123	—	GND
4	I/O	VBL	44	I	HR	84	I	TM2	124	—	NC
5	I/O	OBBL	45	I/O	LALT	85	0	OSC	125	0	VD0
6	I/O	OVD	46	I	ALTR	86	I	SD1	126	0	VD1
7	I/O	OFOE	47	I	CLR	87	I	SKC	127	0	VD2
8	0	CFDET	48	I	CK27	88	I	STRB	128	0	VD3
9	0	OSYNC	49	0	CK13	89	I/O	PD0	129	0	VD4
10	I	VOVR	50	I	HCK	90	I/O	PD1	130	0	VD5
11	—	GND	51	—	GND	91	—	GND	131	—	GND
12	0	OVR	52	I	SM1	92	I/O	PD2	132	0	VD6
13	0	READV	53	I	SM2	93	I/O	PD3	133	0	VD7
14	I	VP0	54	I	SM3	94	I/O	PD4	134	I	VISP
15	I	VP1	55	0	PHO	95	I/O	PD5	135	I/O	BST
16	I	VP2	56	I	PHI	96	I/O	PD6	136	I/O	O2BH
17	I	VP3	57	0	PH	97	I/O	PD7	137	I/O	HS
18	I	ADV	58	0	CLP	98	I	PKC	138	0	RZ
19	—	GND	59	—	GND	99	—	GND	139	—	GND
20	—	NC	60	—	NC	100	—	NC	140	—	NC
21	—	VDD	61	—	NC	101	—	VDD	141	—	VDD
22	I	CONF	62	I/O	EQ	102	I	SVCK	142	I/O	F2H
23	I	SDL	63	I/O	VS	103	I	ADOE	143	I/O	FH
24	I	CSDL	64	0	PALT	104	I	CNT	144	I	FLK2
25	0	RSID	65	I/O	R29H	105	0	SWR	145	I	VITE
26	0	RBG	66	I/O	RHBL	106	0	SWS	146	I	VIEX
27	0	SCBL	67	I/O	OHLB	107	I	SCLD	147	0	YBL
28	0	RBLK	68	I/O	OHB	108	I	VISC	148	0	CBL
29	—	GND	69	—	GND	109	0	UD0	149	I	BCAM
30	0	RSYNC	70	0	IBF	110	0	UD1	150	0	ENBL
31	0	RVD	71	I	PBF	111	0	UD2	151	0	CID8
32	0	REOE	72	I/O	I2H	112	0	UD3	152	0	CIDR
33	0	R8F	73	0	INTH	113	0	UD4	153	0	VISB
34	I	EXVR	74	I	TM1	114	0	UD5	154	0	VISR
35	I	SEXT	75	I	TCI	115	0	UD6	155	0	OSID
36	0	BEXT	76	I	FSC4	116	0	UD7	156	0	JUC
37	—	VDD	77	—	VDD	117	—	VDD	157	—	VDD
38	I	TGC	78	—	NC	118	—	NC	158	—	NC
39	—	NC	79	—	NC	119	—	NC	159	—	NC
40	—	NC	80	—	NC	120	—	NC	160	—	NC



CXD8176AQ (NEC)

CMOS DUAL PORT RAM CONTROLLER

- TOP VIEW -

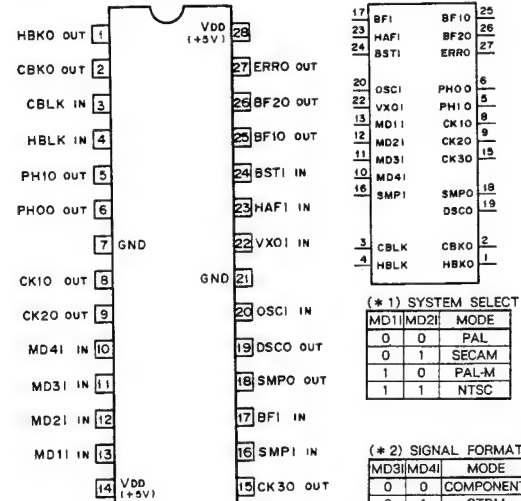


PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	DOL	21	I/O	D7R	41	I/O	D6M	61	I	A10L
2	I	WRL	22	I/O	D6R	42	I/O	D5M	62	I	A9L
3	I	RDL	23	I/O	D6R	43	I/O	D4M	63	I	A8L
4	O	WAITL	24	I/O	D4R	44	I/O	D3M	64	I	A7L
5	I	CSL	25	I/O	D3R	45	I/O	D2M	65	I	A6L
6	I	CKL	26	I/O	D2R	46	-	VDD	66	I	A5L
7	-	NC	27	I/O	D1R	47	I/O	D1M	67	I	A4L
8	-	NC	28	I/O	D0R	48	I/O	D0M	68	I	A3L
9	I	A10R	29	I	WRR	49	O	A0M	69	I	A2L
10	I	A9R	30	I	RDR	50	O	A1M	70	I	A1L
11	I	A8R	31	O	WAITR	51	O	A2M	71	-	GND
12	-	GND	32	I	CSR	52	O	A3M	72	-	VDD
13	I	A7R	33	-	GND	53	-	GND	73	I	A0L
14	I	A6R	34	-	VDD	54	O	A4M	74	I/O	D7L
15	I	A5R	35	I	CKR	55	O	A5M	75	I/O	D6L
16	I	A4R	36	I	CKT	56	O	A6M	76	I/O	D5L
17	I	A3R	37	O	WEM	57	O	A7M	77	I/O	D4L
18	I	A2R	38	O	CEM	58	O	A8M	78	I/O	D3L
19	I	A1R	39	O	CEM	59	O	A9M	79	I/O	D2L
20	I	A0R	40	I/O	DTM	60	O	A10M	80	I/O	D1L

CXD8243AM (SONY) FLAT PACKAGE

CMOS DIGITAL YC SEPARATOR/DECODER/CTDM CLOCK GENERATOR

- TOP VIEW -



(*1) SYSTEM SELECT	
MD1I/MD2I	MODE
0 0	PAL
0 1	SECAM
1 0	PAL-M
1 1	NTSC

(*2) SIGNAL FORMAT SELECT	
MD3I/MD4I	MODE
0 0	COMPONENT
0 1	CTDM
1 0	COMPOSITE
1 1	S-VIDEO

0: LOW LEVEL
1: HIGH LEVEL

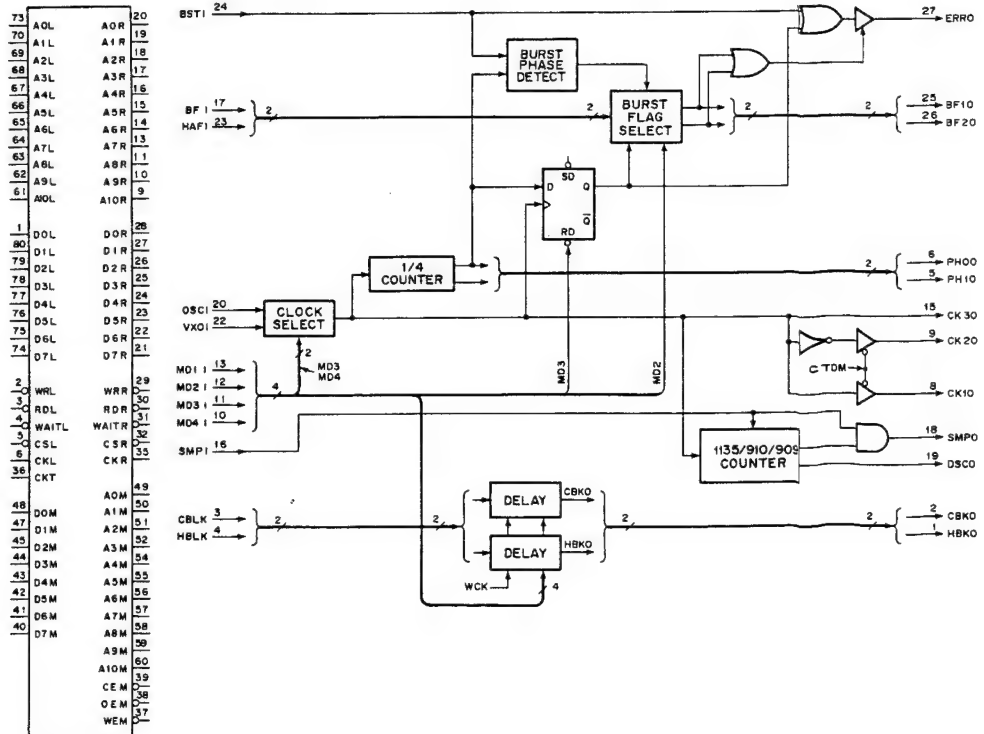
INPUT
 BFI : BURST FLAG
 BSTI : BURST FOR PHASE COMPARISON
 CBLK : CHROMA BLANKING PULSE
 HAF1 : TRIGGER PULSE FOR BURST SAMPLING
 HBLK : H BLANKING PULSE
 MD1, 2I : SYSTEM SELECT (*1)
 MD3, 4I : SIGNAL FORMAT SELECT (*2)
 OSCI : H LOCK LOOP VCO
 SMP1 : TRAPEZOID SAMPLING PULSE OF THE H LOCK LOOP
 VXOI : BURST LOCK LOOP VXCO

OUTPUT
 BFI, 2O : BURST FLAG
 CBKO : CHROMA BLANKING PULSE
 CK1-30 : CLOCK, SELECTED BY MODE
 DSCO : TRAPEZOID GENERATOR DISCHARGE PULSE
 ERRO : BURST PHASE COMPARISON ERROR
 HBKO : H BLANKING PULSE
 PH00 : 2FSC
 PH10 : FSC
 SMP0 : TRAPEZOID SAMPLING PULSE OF THE H LOCK LOOP

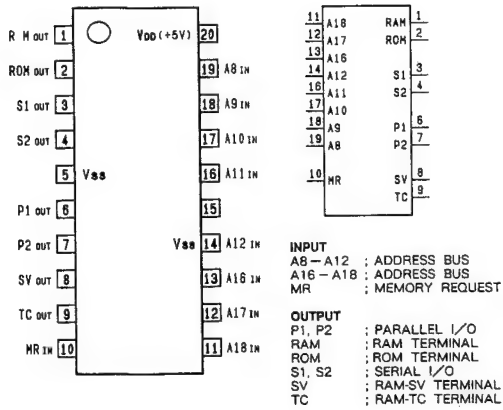
INPUT
 A0L-A10L : ADDRESS BUS OF PORT L
 A0R-A10R : ADDRESS BUS OF PORT R
 CKL : CLOCK OF PORT L
 CKR : CLOCK OF PORT R
 CSL : CHIP SELECT OF PORT L
 CSR : CHIP SELECT OF PORT R
 RDL : READ STROBE OF PORT L
 RDR : READ STROBE OF PORT R
 WRL : WRITE STROBE OF PORT L
 WRR : WRITE STROBE OF PORT R

OUTPUT
 A0M-A10M : ADDRESS BUS FOR MEMORY DEVICE
 CEM : CHIP ENABLE FOR MEMORY DEVICE
 OEM : OUTPUT ENABLE FOR MEMORY DEVICE
 WAITL : WAIT OF PORT L
 WAITR : WAIT OF PORT R
 WEM : WRITE ENABLE FOR MEMORY DEVICE

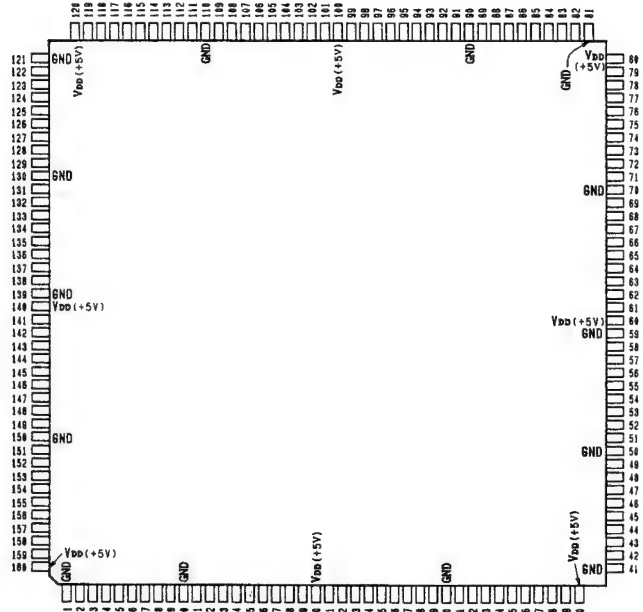
INPUT/OUTPUT
 D0L-D7L : DATA BUS OF PORT L
 D0M-D7M : DATA BUS FOR MEMORY DEVICE
 D0R-D7R : DATA BUS OF PORT R



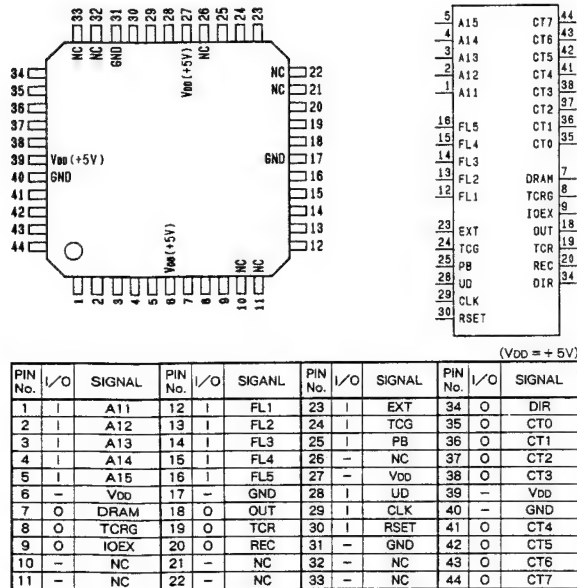
CXD8310M (SONY)
C-MOS GATE ARRAY
- TOP VIEW -



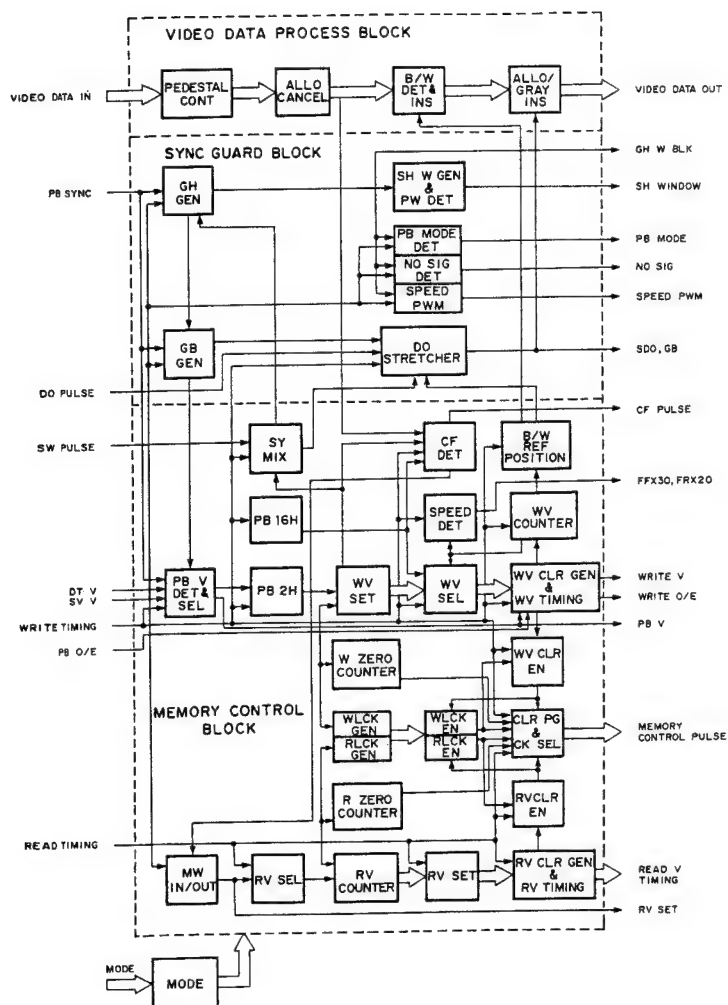
CXD8313Q (SONY)
C-MOS TBC
- TOP VIEW -



CXD8311Q (SONY) FLAT PACKAGE
TIME CODE u-COM INTERFACE
- TOP VIEW -

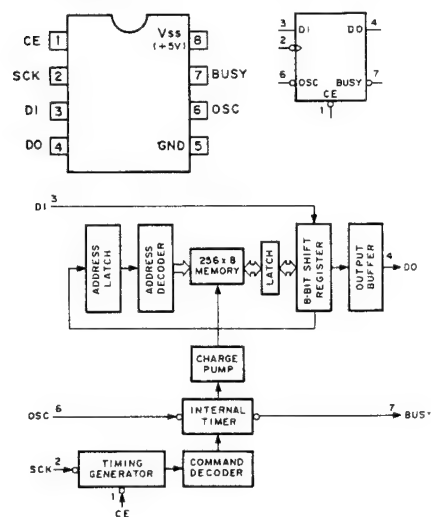


PIN No.	I/O	PIN NAME	PIN No.	I/O	PIN NAME	PIN No.	I/O	PIN NAME	PIN No.	I/O	PIN NAME
1	-	GND	41	-	GND	81	-	GND	121	-	GND
2	I	FWDXREV	42	I/O	RMAB	82	O	RBWLN	122	I	DIN9
3	I	X13	43	I/O	RVCLR	83	O	COMPBLK	123	I	DIN8
4	I	NOIPB	44	I/O	WMAB	84	O	VBLK2	124	I	DIN7
5	I	HEE	45	I/O	WVCLR	85	O	VBLK1	125	I	DIN6
6	I	HINPHASE	46	I/O	TD0	86	O	ADVBLK	126	I	DIN5
7	I	SHIFTINH	47	I	TST5	87	O	ADOTHRU	127	I	DIN4
8	O	VSCXFP1	48	I	TST4	88	O	RDIZ	128	I	DIN3
9	O	VSCDTP2	49	I	TST3	89	O	RCK	129	I	DIN2
10	-	GND	50	-	GND	90	-	GND	130	-	GND
11	I	OSCON	51	I	TST2	91	O	VCLR2	131	I	DIN1
12	I	MOD6	52	I	TST1	92	O	INC2	132	I	DIN0
13	I	DT	53	I	TST0	93	O	HCLR2	133	I	WCK
14	I	DTX3	54	I	FLMOFF	94	O	MRCK2	134	I	WZ
15	I	PBOE	55	I	FLMOFF	95	O	VCLR1	135	I	ADVWZ
16	I	DTV	56	I	MOD11	96	O	INC1	136	I	WCLP
17	I	SVV	57	I	MOD10	97	O	HCLR1	137	I	VISCCMUT
18	I	SWP	58	I	MOD7	98	O	MRCK1	138	I	PRCK
19	I	FRX3020	59	-	GND	99	O	VCLR0	139	-	GND
20	-	VDD	60	-	VDD	100	-	VDD	140	-	VDD
21	O	BINS	61	I/O	BID	101	O	INCO	141	I	PRZ
22	O	WINS	62	I/O	BIDDIR	102	O	HCLR0	142	I	PBSYNC
23	O	BWBLK	63	I	MOD4	103	O	DOCLR	143	O	WBLK
24	O	WHITECNT	64	I	MOD3	104	O	MWCK	144	I/O	GH
25	I	DO	65	I	MOD2	105	O	WE	145	O	SHW
26	I/O	PB16H	66	I	MOD1	106	O	DOUT0	146	I/O	SD01
27	I/O	PB2H	67	I	JUC	107	O	DOUT1	147	I/O	GB
28	O	COUNTREV	68	I	SGBLK	108	O	DOUT2	148	O	WDIZ
29	I/O	PBV	69	I	REFOE	109	O	DOUT3	149	I/O	FBID
30	-	GND	70	-	GND	110	-	GND	150	-	GND
31	O	WRITEV	71	I	READV	111	O	DOUT4	151	I/O	FFB
32	O	WOE	72	I	RZ	112	O	DOUT5	152	I/O	FRB
33	I/O	WVISCID	73	I	R456FH	113	O	DOUT6	153	O	FF30COFF
34	O	RVISCID	74	I	R2BH	114	O	DOUT7	154	O	FR30HDL
35	I/O	RVSET	75	I	R2FH	115	-	-	155	I	THRU2
36	I/O	WENP	76	I	HCK	116	O	DOUT8	156	I	THRU1
37	I/O	REN	77	I	SDATA	117	O	DOUT9	157	I/O	NOSIG
38	I	LEVST	78	I	SLD	118	O	SD02WDO	158	O	PDSCONT
39	I	CLR	79	I	SCK	119	I	HOE	159	O	SPDPWM
40	-	VDD	80	-	VDD	120	-	VDD	160	-	VDD



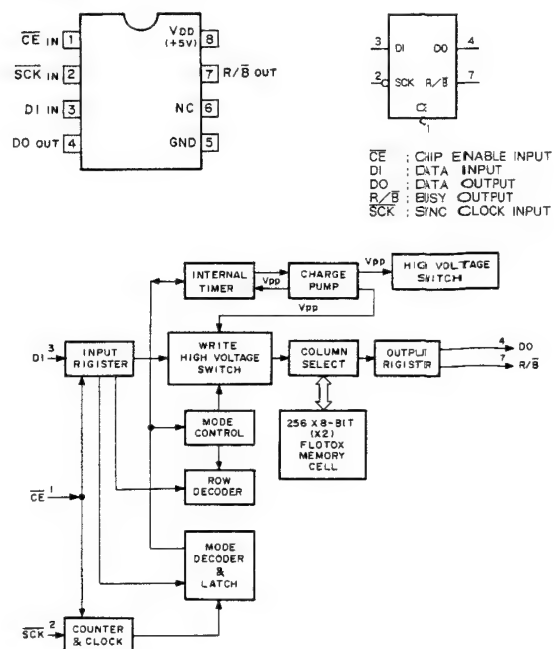
CXK1013P (SONY)

NMOS 2K (256x8)-BIT NON-VOLATILE MEMORY
- TOP VIEW -

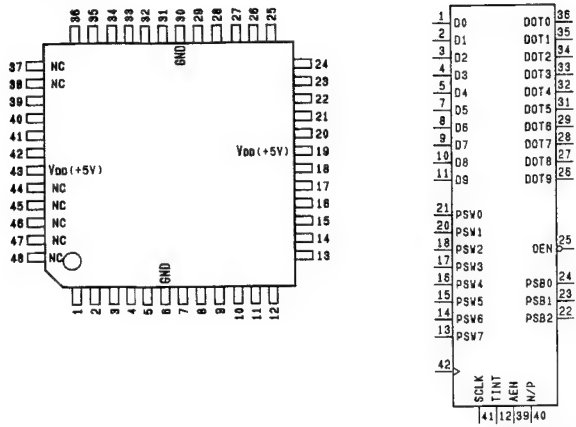


CXK1023P (SONY)

C-MOS 2K (256x8)-BIT NON-VOLATILE MEMORY
- TOP VIEW -



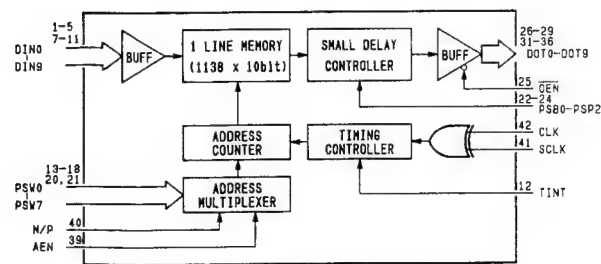
CXK1203Q (SONY)
C-MOS DIGITAL LINE MEMORY
- TOP VIEW -



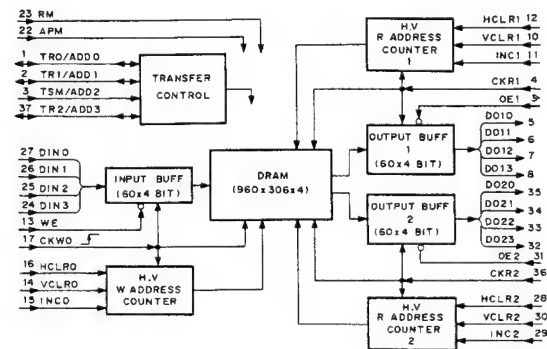
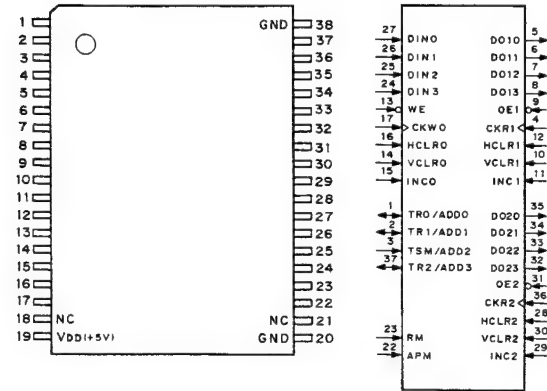
(VDD = +5V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D0	13	I	PSW7	25	I	OEN	37	-	N.C
2	I	D1	14	I	PSW6	26	O	DOT9	38	-	N.C
3	I	D2	15	I	PSW5	27	O	DOT8	39	I	AEN
4	I	D3	16	I	PSW4	28	O	DOT7	40	I	N/P
5	I	D4	17	I	PSW3	29	O	DOT6	41	I	SCLK
6	-	GND	18	I	PSW2	30	-	GND	42	I	CLK
7	I	D5	19	-	VDD	31	O	DOT5	43	-	VDD
8	I	D6	20	I	PSW1	32	O	DOT4	44	-	N.C
9	I	D7	21	I	PSW0	33	O	DOT3	45	-	N.C
10	I	D8	22	I	PSB2	34	O	DOT2	46	-	N.C
11	I	D9	23	I	PSB1	35	O	DOT1	47	-	N.C
12	I	TINT	24	I	PSB0	36	O	DOT0	48	-	N.C

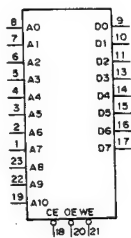
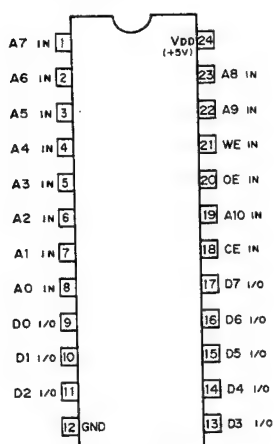
AEN : LINE MEMORY SELECT
CLK : CLOCK
DIN0-DIN9 : VIDEO DATA INPUT
DOT0-DOT9 : VIDEO DATA OUTPUT
N/P : NTSC/PAL/SECAM SELECT
OEN : OUTPUT ENABLE
PSB0-PSB2 : DELAY STEP SELECT(1 BITXN)
PSW0-PSW7 : DELAY STEP SELECT(8 BITXN)
SCLK : CLOCK EDGE SELECT
TINT : TEST



CXK1206AM (SONY) FLAT PACKAGE
CXK1206M (SONY) FLAT PACKAGE
C-MOS VIDEO FIELD MEMORY (960-COLUMNx306-ROWx4-BIT)
- TOP VIEW -



CXK5816M-12L (SONY) (ACCESS TIME 120ns)
C-MOS 16K (2Kx8-BIT) STATIC RAM
- TOP VIEW -

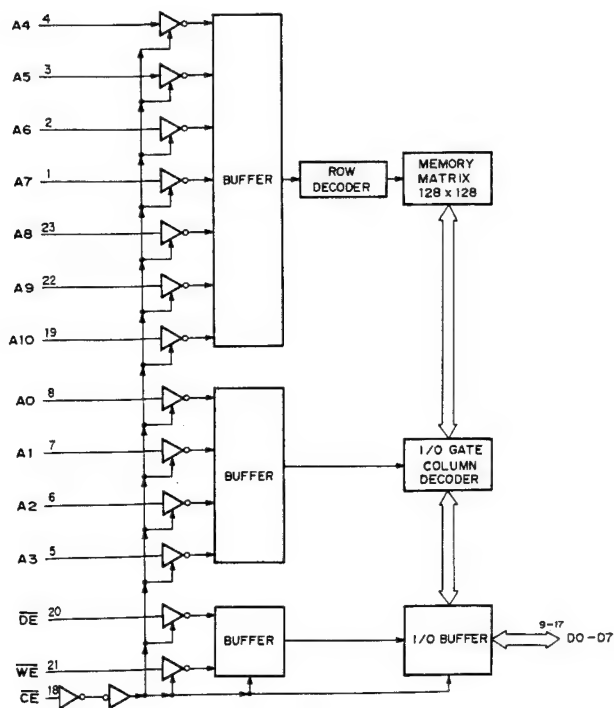


A0-A10; ADDRESS INPUTS
CE ; CHIP ENABLE INPUT
D0-D7 ; DATA INPUTS/OUTPUTS
OE ; OUTPUT ENABLE INPUT
WE ; WRITE ENABLE INPUT

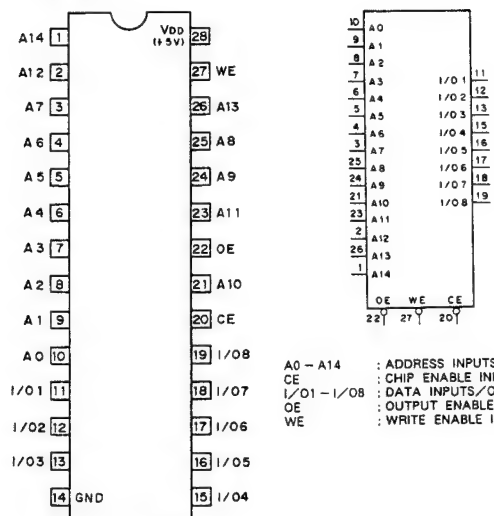
MODE SELECTION

CONTROL INPUTS			MODE
CE	OE	WE	
1	X	X	NO CHANGE
0	1	1	DISABLE OUTPUT
0	0	1	READ
0	1	0	WRITE

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE



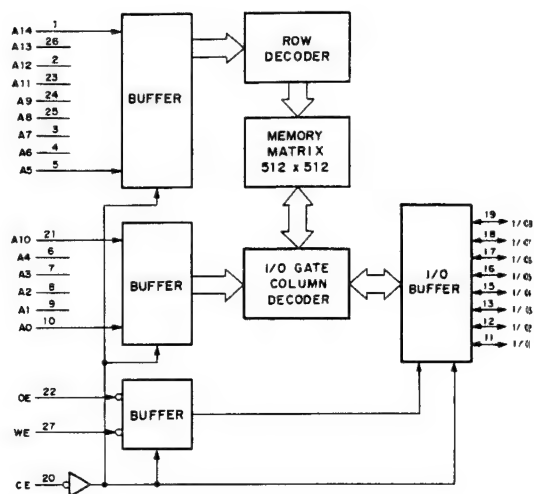
CXK58257M-10L (SONY) FLAT PACKAGE
MS62256CLL-10FC (MOSEL) FLAT PACKAGE
C-MOS 256K (32768x8)-BIT STATIC RAM
- TOP VIEW -



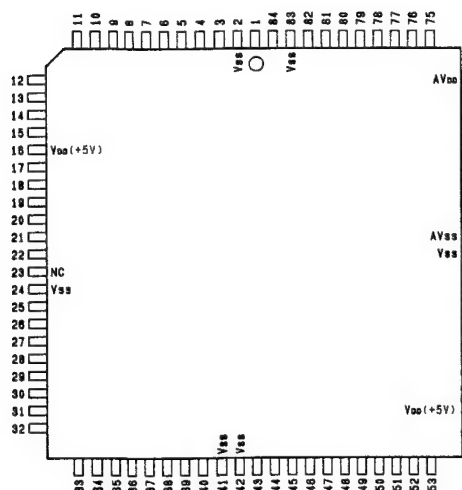
A0-A14 ; ADDRESS INPUTS
CE ; CHIP ENABLE INPUT
I/O0-I/O7 ; DATA INPUTS/OUTPUTS
OE ; OUTPUT ENABLE INPUT
WE ; WRITE ENABLE INPUT

CE	OE	WE	MODE	I/O TERMINAL
1	X	X	NOT SELECT	HIGH IMPEDANCE
0	1	1	OUTPUT DISABLE	HIGH IMPEDANCE
0	0	1	READ	OUTPUT DATA
0	X	0	WRITE	INPUT DATA

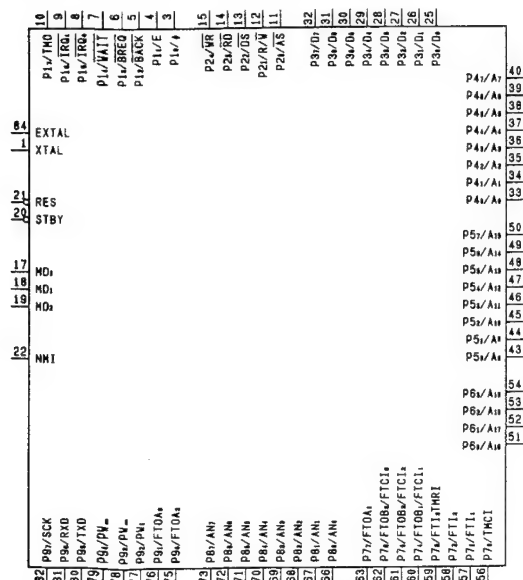
0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE



16-BIT CPU
- TOP VIEW -

 $(V_{DD} = +5V)$

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	XTAL	29	I/O	P34/D4	57	I/O	P71/FT11
2	—	Vss	30	I/O	P35/D5	58	I/O	P72/FT12
3	I/O	P10/φ	31	I/O	P36/D6	59	I/O	P73/FT13/TMR1
4	I/O	P11/E	32	I/O	P37/D7	60	I/O	P74/FT081/FTC01
5	I/O	P12/BACK	33	I/O	P40/A0	61	I/O	P75/FT082/FTC2
6	I/O	P13/BREQ	34	I/O	P41/A1	62	I/O	P76/FT083/FTC3
7	I/O	P14/WAIT	35	I/O	P42/A2	63	—	P77/FT0A1
8	I/O	P15/IRQ	36	I/O	P43/A3	64	—	Vss
9	I/O	P16/IRQT	37	I/O	P44/A4	65	—	Avss
10	I/O	P17/TMO	38	I/O	P45/A5	66	I/O	P80/A0
11	I/O	P20/A5	39	I/O	P46/A6	67	I/O	P81/AN1
12	I/O	P21/R/W	40	I/O	P47/A7	68	I/O	P82/AN2
13	I/O	P22/DS	41	—	Vss	69	I/O	P83/AN3
14	I/O	P23/RD	42	—	Vss	70	I/O	P84/AN4
15	I/O	P24/WR	43	I/O	P50/A8	71	I/O	P85/AN5
16	—	Vcc	44	I/O	P51/A9	72	I/O	P86/AN6
17	I	MDO	45	I/O	P52/A10	73	I/O	P87/AN7
18	I	MD1	46	I/O	P53/A11	74	—	Avcc
19	I	MD2	47	I/O	P54/A12	75	I/O	P90/FT0A2
20	I	STBY	48	I/O	P55/A13	76	I/O	P91/FT0A3
21	I	RES	49	I/O	P56/A14	77	I/O	P92/PW1
22	I	NMI	50	I/O	P57/A15	78	I/O	P93/PW2
23	—	NC	51	I/O	P60/A16	79	I/O	P94/PW3
24	—	Vss	52	I/O	P61/A17	80	I/O	P95/TXD
25	I/O	P30/D0	53	I/O	P62/A18	81	I/O	P96/RXD
26	I/O	P31/D1	54	I/O	P63/A19	82	I/O	P97/SCK
27	I/O	P32/D2	55	—	Vcc	83	—	Vss
28	I/O	P33/D3	56	I/O	P70/TMCI	84	I	EXTAL



```

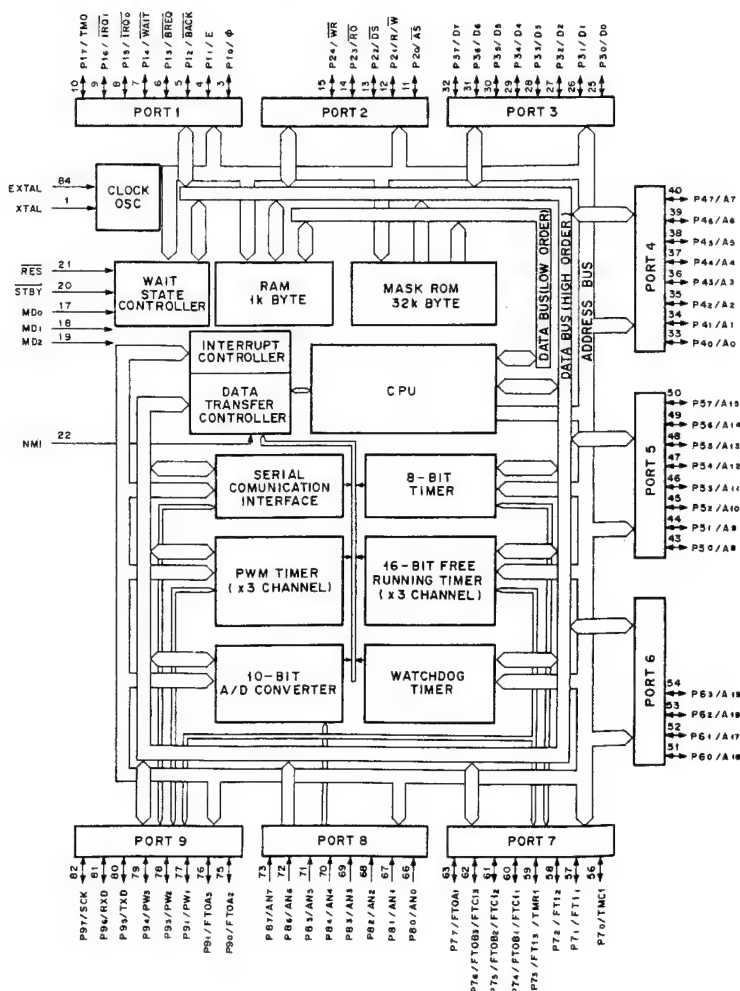
OUTPUT
A0 - A19      : ADDRESS BUS
AS            : ADDRESS STROBE
BACK          : BUS REQUEST ACKNOWLEDGE
DS            : DATA STROBE
EN            : ENABLE CLOCK
FTOA1 - FTOA3 : FRT OUTPUT COMPARE A OUTPUT (CHANNEL 1 TO 3)
FTOB1 - FTOB3 : FRT OUTPUT COMPARE B OUTPUT (CHANNEL 1 TO 3)
PW1 - PW3     : PWM TIMER OUTPUT (CHANNEL 1 TO 3)
R / W         : READ / WRITE
RD            : READ
TMO           : 8-BIT TIMER OUTPUT
TXD           : SEND DATA
WR            : WRITE
φ             : SYSTEM CLOCK

```

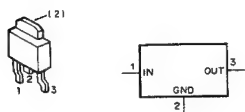
```

INPUT/OUTPUT
D0 - D7      ; DATA BUS
P10 - P17    ; PORT 1
P20 - P24    ; PORT 2
P30 - P37    ; PORT 3
P40 - P47    ; PORT 4
P50 - P57    ; PORT 5
P60 - P63    ; PORT 6
P70 - P77    ; PORT 7
P90 - P97    ; PORT 9
SCK          ; SERIAL CLOCK INPUT/OUTPUT

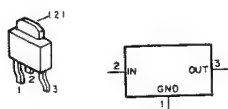
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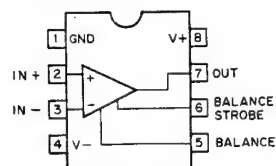
L78M09T (SANYO) +9V 0.5A
POSITIVE VOLTAGE REGULATOR



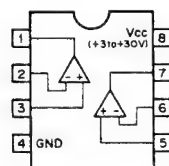
L79M09T (SANYO) -9 V
NEGATIVE VOLTAGE REGULATOR (500 mA)



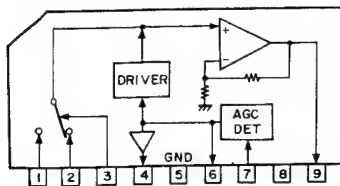
LM311PS (TI) FLAT PACKAGE
VOLTAGE COMPARATOR WITH STROBE
- TOP VIEW -



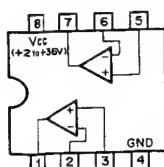
LM358P (TI)
UPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS
- TOP VIEW -



LA7205 (SANYO)
AGC AMP, INPUT SELECT, AGC DET, COMPARATOR
- SIDE VIEW -

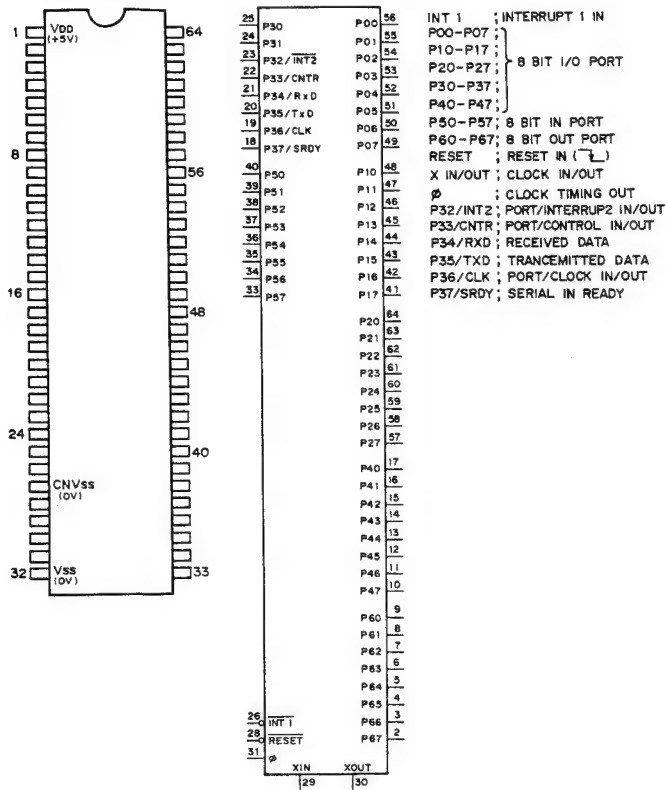


LM2903DQ (RAYTHEON)
LM2903M (RAYTHEON) FLAT PACKAGE
LM2903P (TI)
LM2903PS (TI) FLAT PACKAGE
NJM2903D (JRC)
NJM2903M (JRC) FLAT PACKAGE
UPC393G2 (NEC) FLAT PACKAGE
DUAL VOLTAGE COMPARATORS
- TOP VIEW -



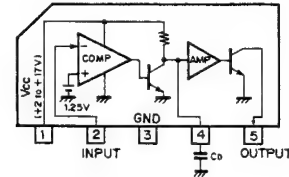
M50747H-XXXSP

C-MOS PROCESS 8-BIT ONE CHIP MICROCOMPUTER
- TOP VIEW -

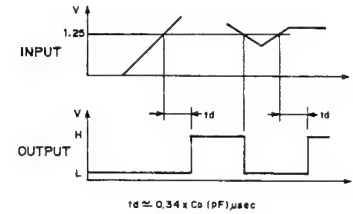


M51957BL (MITSUBISHI)

VOLTAGE DETECT DELAY
- PRINTED SIDE VIEW -

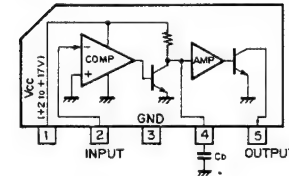


TIMING CHART

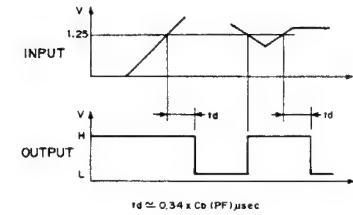


M51958BL (MITSUBISHI)

VOLTAGE DETECT DELAY
- PRINTED SIDE VIEW -

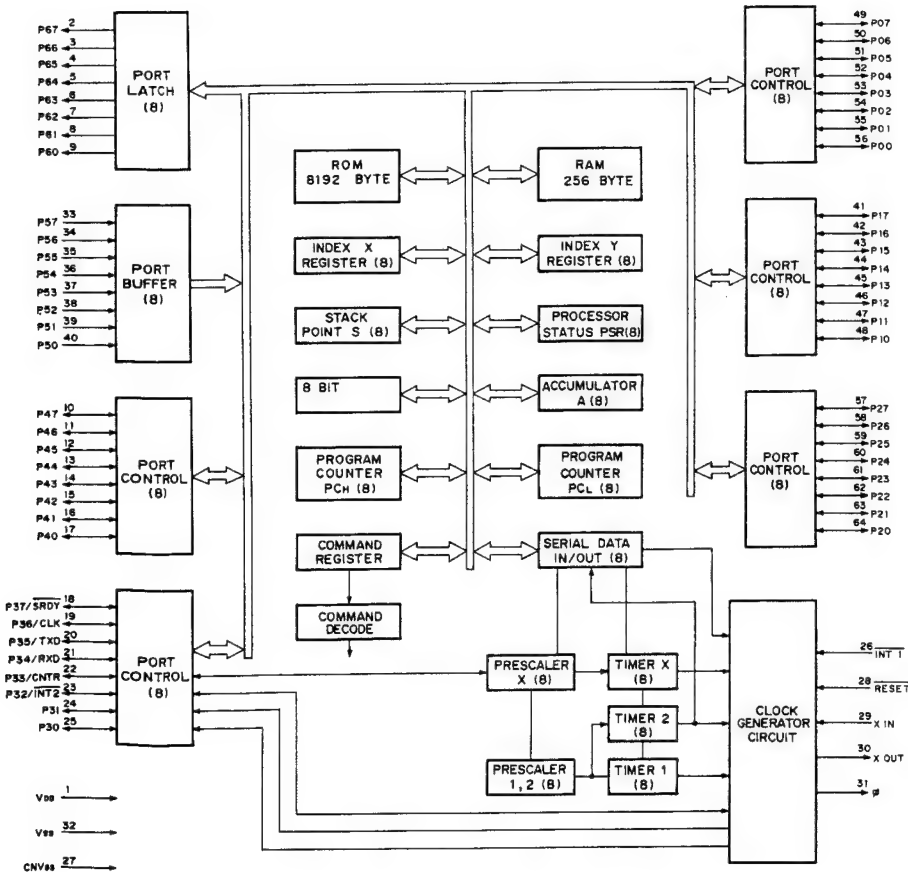
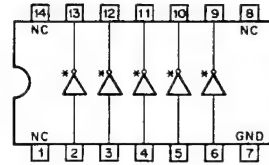


TIMING CHART

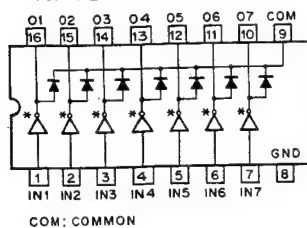


M54516P (MITSUBISHI)

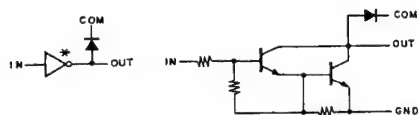
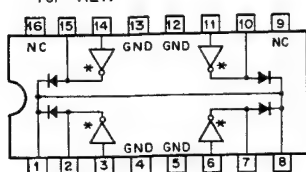
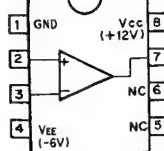
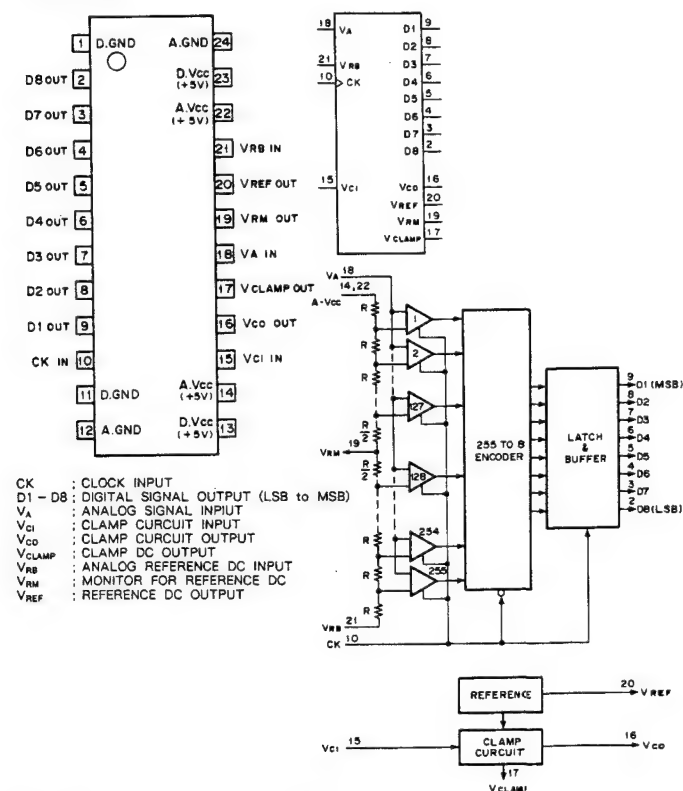
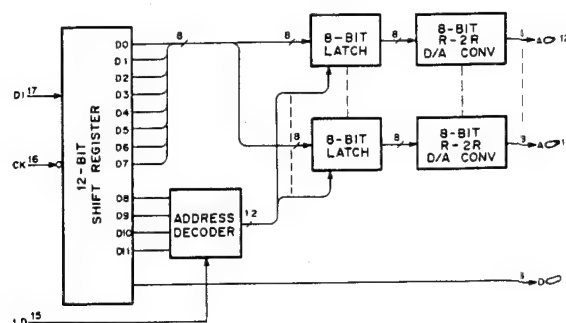
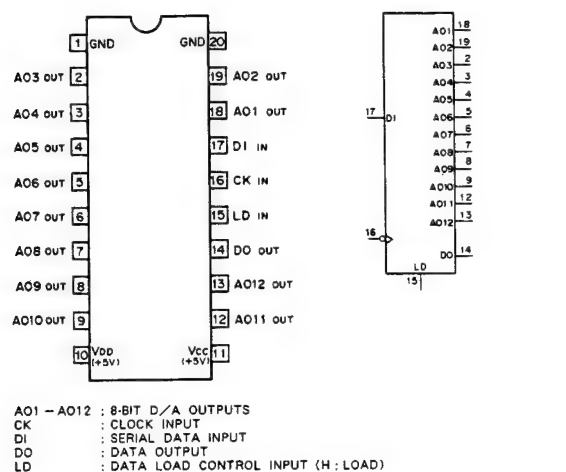
INVERTER WITH OPEN-COLLECTOR
(DARLINGTON-CONNECTED TRANSISTOR ARRAY)
- TOP VIEW -



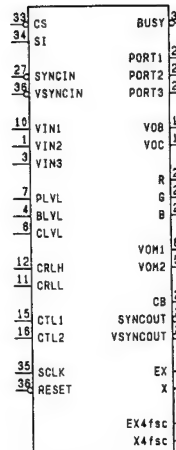
M54523P (MITSUBISHI)

BIPOLAR TRANSISTOR ARRAY WITH OPEN COLLECTOR
- TOP VIEW -

M54532P (MITSUBISHI)

DARLINGTON TRANSISTOR ARRAY WITH CLAMP DIODE
- TOP VIEW -MB4002PF (FUJITSU) FLAT PACKAGE
HIGH SPEED VOLTAGE COMPARATOR
- TOP VIEW -MB40568 (FUJITSU) FLAT PACKAGE
MB40568PF (FUJITSU) FLAT PACKAGE
8BIT VIDEO A/D CONVERTER
- TOP VIEW -MB88341PFV (FUJITSU) FLAT PACKAGE
C-MOS 8-BIT D/A CONVERTER
- TOP VIEW -

Pin diagram of the 74VHC04 hex inverters. The diagram shows a 14-pin package with pins 1 through 14 on the left and pins 38 through 29 on the right. Pin 1 is VIN2, Pin 2 is AVss, Pin 3 is VINS, Pin 4 is BLVL, Pin 5 is VOM2, Pin 6 is CLVL, Pin 7 is PLVL, Pin 8 is VOM1, Pin 9 is AVcc, Pin 10 is VIN1, Pin 11 is CRLL, Pin 12 is CRLH, Pin 13 is VOB, Pin 14 is VDC, Pin 15 is CTL1, Pin 16 is CTL2, Pin 17 is X, Pin 18 is EX, Pin 19 is Vss, Pin 38 is Vcc, Pin 37 is RESET, Pin 36 is (VSYN), Pin 35 is SCLK, Pin 34 is S1, Pin 33 is CS, Pin 32 is BUSY, Pin 31 is EX4fs, Pin 30 is X4fsc, Pin 29 is (VSYN), Pin 28 is SYNC0, Pin 27 is B, Pin 26 is R, Pin 25 is G, Pin 24 is CB, Pin 23 is PORT3, Pin 22 is PORT2, Pin 21 is PORT1.



```

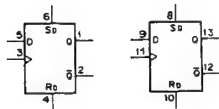
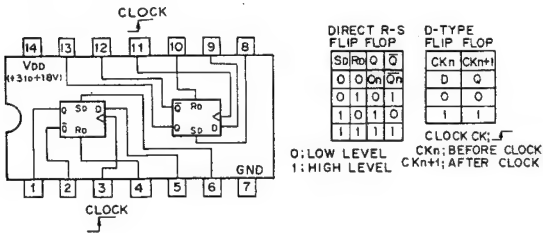
INPUT
BLVL      : BACK GROUND LEVEL IN
CLVL      : CHARACTER LEVEL IN
CRLH      : CHROMA HIGH LEVEL IN
CRLL      : CHROMA LOW LEVEL IN
CS        : CHIP SELECTOR
CTL1, CTL2 : CONTROLLER 1, 2 (VOM 1/2/3/4 SELECTION)
EX        : DISPLAY DOT CLOCK TERMINAL
EX4fsc    : COLOR BURST CLOCK TERMINAL
PLVL      : VIDEO LEVEL IN
RESET      : RESET
SI        : SERIAL DATA IN
SYNCIN    : H SYNC IN
VIN1 - VIN3 : VIDEO IN 1, 2, 3
VSTNCIN   : V SYNC IN

OUTPUT
B          : BLUE OUT
VOC        : CHARACTER VIDEO OUT
BUSY      : BUSY OUT
CB         : COLOR BURST OUT
G          : GREEN OUT
PORT1 - PORT3 : PORT3 OUT
R          : RED OUT
SYNCOUT    : H SYNC OUT
VOB        : BACK GROUND VIDEO OUT
VOM1, VOM2 : VIDEO OUT1, 2
YSTNCOUT   : V SYNC OUT
X          : DISPLAY DOT CLOCK TERMINAL
X4fsc     : COLOR BURST CLOCK TERMINAL

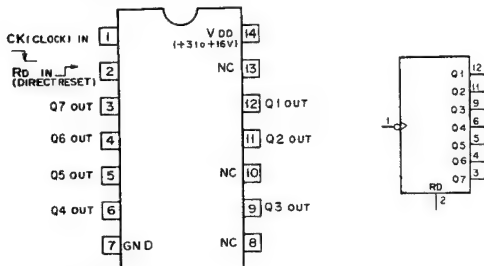
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MC14013BCP (MOTOROLA)

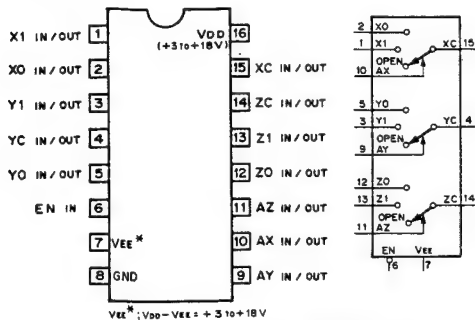
C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
- TOP VIEW -

MC14024BCP (MOTOROLA)

C-MOS ASYNCHRONOUS 7-BIT BINARY COUNTER
- TOP VIEW -

COUNT	INPUTS		OUTPUTS							
	CK	Ro	Q7	Q6	Q5	Q4	Q3	Q2	Q1	
0	X	1	0	0	0	0	0	0	0	
1	1	0	0	0	0	0	0	0	1	
2	1	0	0	0	0	0	0	1	0	
3	1	0	0	0	0	0	0	1	1	
4	1	0	0	0	0	0	1	0	0	
125	1	0	1	1	1	1	0	1	0	
126	1	0	1	1	1	1	1	0	1	
127	1	0	1	1	1	1	1	1	1	
—	0		NO CHANGE							
—	1	0								

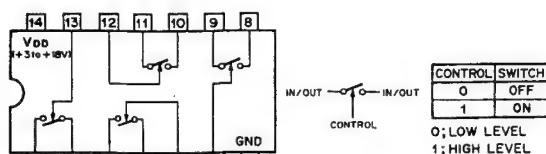
MC14053BCP (MOTOROLA)
MC14053BF (MOTOROLA) FLAT PACKAGE
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER
- TOP VIEW -



0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

CONT. INPUTS	ON
EN A (X,Y,Z) CHANNEL	
0	0
0	1
1	X

MC14066BF (MOTOROLA) FLAT PACKAGE
C-MOS BILATERAL ANALOG SWITCH
- TOP VIEW -

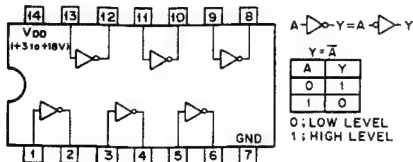


CONTROL	SWITCH
0	OFF
1	ON

0; LOW LEVEL
1; HIGH LEVEL

MC14069UBCP (MOTOROLA)
MC14069UBF (MOTOROLA)

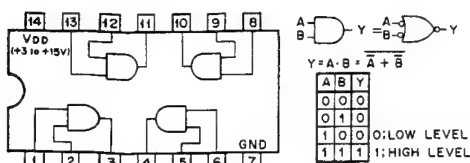
C-MOS INVERTER
- TOP VIEW -



A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

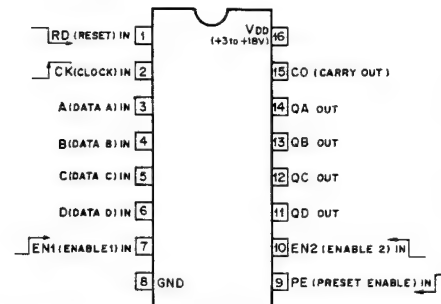
MC14081BCP (MOTOROLA)
C-MOS 2-INPUT AND GATE
- TOP VIEW -



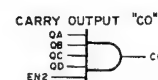
A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0; LOW LEVEL
1; HIGH LEVEL

MC14181BCP (MOTOROLA)
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER WITH ASYNCHRONOUS RESET
- TOP VIEW -



MODE SELECTION					
CONTROL INPUTS				MODE	
RD	PE	EN1	EN2		
0	X	X	X	RESET (ASYNCHRONOUS)	
1	0	X	X	PRESET (SYNCHRONOUS)	
1	1	0	X	NO COUNT	
1	1	X	0	NO COUNT	
1	1	1	1	COUNT	

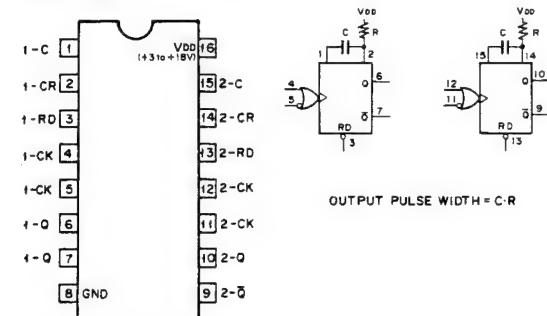


CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

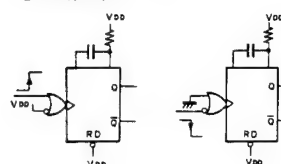
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

MC14538BCP (MOTOROLA)
MC14538BF (MOTOROLA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -

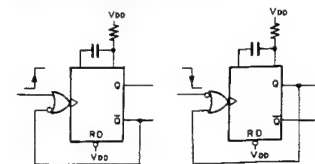


OUTPUT PULSE WIDTH = C · R

RETRIGGERABLE M.M.V

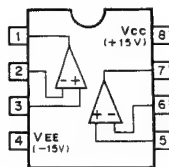


NON-RETRIGGERABLE M.M.V

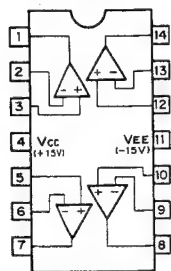


MC34182M (MOTOROLA) FLAT PACKAGE
TL072CP (TI)
TL082CPS (TI) FLAT PACKAGE

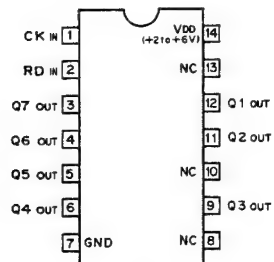
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -



MC34184M (MOTOROLA) FLAT PACKAGE
JFET INPUT OPERATIONAL AMPLIFIER
- TOP VIEW -

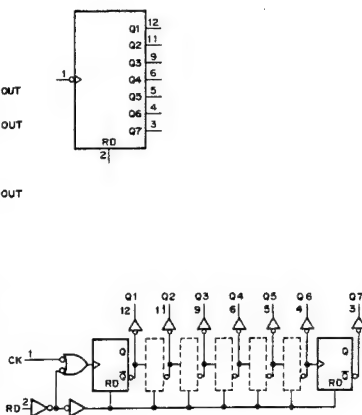


MC74HC4024N (MOTOROLA)
C-MOS 7-BIT BINARY COUNTERS
- TOP VIEW -

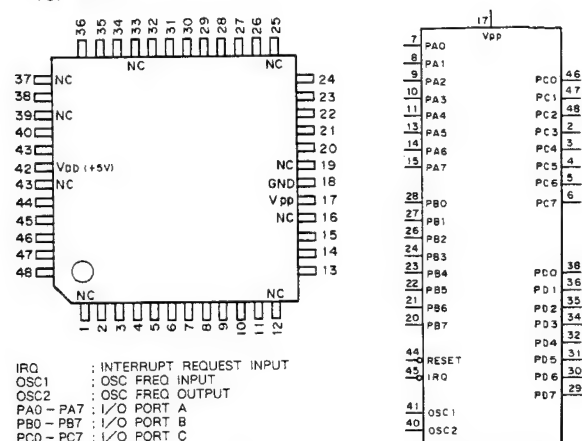


COUNT	CK	RD	Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0
0	X	1	0	0	0	0	0	0	0	0
1	L	0	0	0	0	0	0	0	0	1
2	L	0	0	0	0	0	0	0	1	0
3	L	0	0	0	0	0	0	1	1	1
125	L	0	1	1	1	1	1	1	1	0
126	L	0	1	1	1	1	1	1	1	1
127	L	0	1	1	1	1	1	1	1	1
-	0	0								
-	1	0								

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

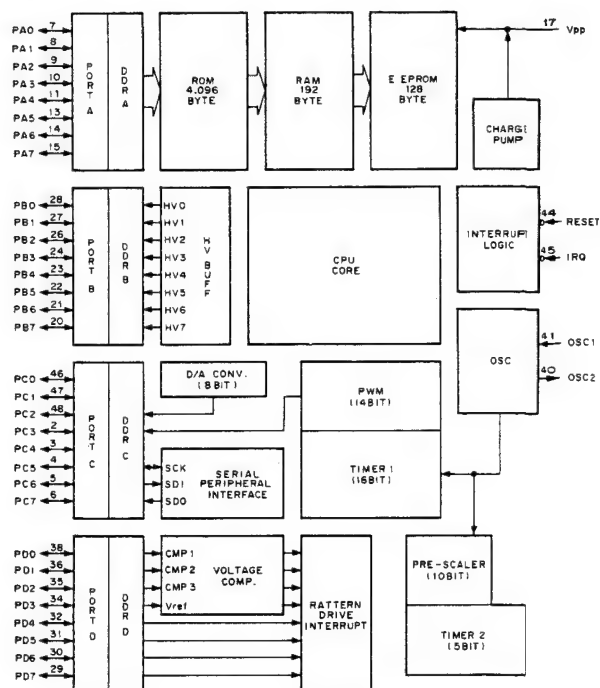


MC68HC05N4 (MOTOROLA)
C-MOS 8-BIT MICROPROCESSOR
- TOP VIEW -

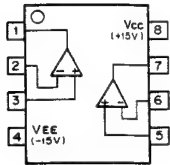


IRQ : INTERRUPT REQUEST INPUT
OSC1 : OSC FREQ INPUT
OSC2 : OSC FREQ OUTPUT
PA0 - PA7 : I/O PORT A
PB0 - PB7 : I/O PORT B
PC0 - PC7 : I/O PORT C
PD0 - PD7 : I/O PORT D
RESET : RESET PULSE INPUT

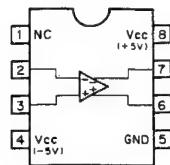
PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	-	NC	13	I/O	PA5	25	-	NC	37	-	NC
2	I/O	PC3	14	I/O	PA6	26	I/O	PB2	38	I/O	PD0
3	I/O	PC4	15	I/O	PA7	27	I/O	PB1	39	-	NC
4	I/O	PC5	16	-	NC	28	I/O	PB0	40	0	OSC2
5	I/O	PC6	17	I	Vpp	29	I/O	PD7	41	I	OSC1
6	I/O	PC7	18	-	GND	30	I/O	PD6	42	-	VDD (+5V)
7	I/O	PA0	19	-	NC	31	I/O	PD5	43	-	NC
8	I/O	PA1	20	I/O	PB7	32	I/O	PD4	44	I	RESET
9	I/O	PA2	21	I/O	PB6	33	-	NC	45	I	IRQ
10	I/O	PA3	22	I/O	PB5	34	I/O	PD3	46	I/O	PC0
11	I/O	PA4	23	I/O	PB4	35	I/O	PD2	47	I/O	PC1
12	-	NC	24	I/O	PB3	36	I/O	PD1	48	I/O	PC2



NJM2068DD (JRC)
LOW NOISE OPERATIONAL AMPLIFIER
- TOP VIEW -

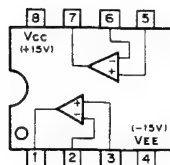


NJM360M (JRC) FLAT PACKAGE
HIGH SPEED VOLTAGE COMPARATOR
(TTL OUTPUT)
- TOP VIEW -



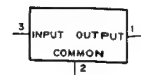
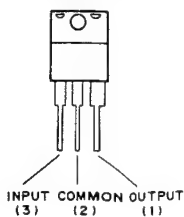
NJM4558D-D (JRC)
NJM4558M (JRC) FLAT PACKAGE
NJM4560D (JRC)
NJM4560M (JRC) FLAT PACKAGE
NJM4565M (JRC) FLAT PACKAGE
NJM4565M-A (JRC) FLAT PACKAGE
NJM5532D-D (JRC)
RC4558DD (RAYTHEON)
RC4558M (RAYTHEON) FLAT PACKAGE
RC4560D (RAYTHEON)
RC4560M (RAYTHEON) FLAT PACKAGE
RC5532DD (RAYTHEON)
UPC4558C (NEC)

DUAL OPERATIONAL AMPLIFIER
- TOP VIEW -



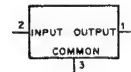
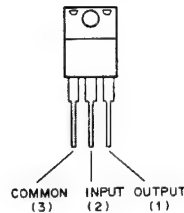
NJM7805FA (JRC) + 5V (1 A)
NJM7809FA (JRC) + 9V (1 A)
NJM7812FA (JRC) + 12V (1 A)
RC7805FA (RAYTHEON) + 5V (1 A)
RC7809FA (RAYTHEON) + 9V (1 A)

POSITIVE VOLTAGE REGULATOR
- FRONT VIEW -



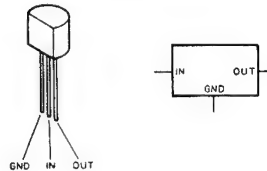
NJM7905FA (JRC) - 5V (1 A)
NJM7909FA (JRC) - 9V (1 A)
RC7905FA (RAYTHEON) - 5V (1 A)
RC7909FA (RAYTHEON) - 9V (1 A)

NEGATIVE VOLTAGE REGULATOR
- FRONT VIEW -

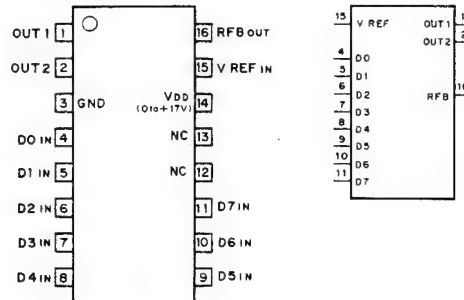


NJM79L05A (JRC) - 5V (100 mA)
NJM79L09A (JRC) - 9V (100 mA)
RC79L05A (RAYTHEON) - 5V (100 mA)
RC79L09A (RAYTHEON) - 9V (100 mA)

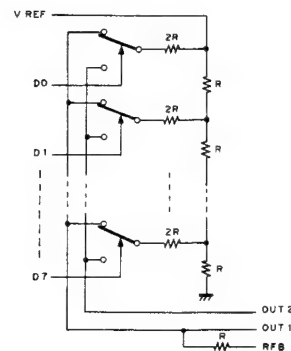
NEGATIVE VOLTAGE REGULATOR



NJU8001M (JRC) FLAT PACKAGE
C-MOS 8-BIT MULTIPLYING D/A CONVERTER
- TOP VIEW -

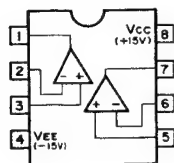


D0 - D7 : DATA INPUTS
RFB : FEED BACK INPUT



RC4556MA (RAYTHEON) FLAT PACKAGE

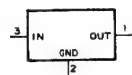
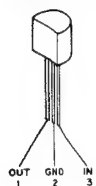
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)
- TOP VIEW -



RC78L05A (RAYTHEON) +5V

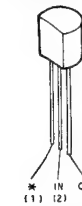
RC78L09A (RAYTHEON) +9V

POSITIVE VOLTAGE REGULATOR (100mA)

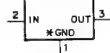


S-81230AG (SEIKO I AND E) +3V

C-MOS VOLTAGE REGULATOR



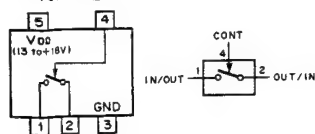
* S-802PP → V_{DD}
S-812PP → V_{SS}



SC14S66F (MOTOROLA) CHIP PACKAGE

SC14S66FEL (MOTOROLA) CHIP PACKAGE

C-MOS BILATERAL ANALOG SWITCH
- TOP VIEW -

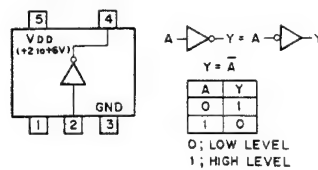


CONT	SWITCH	
0	OFF	0: LOW LEVEL
1	ON	1: HIGH LEVEL

SC7S04F (MOTOROLA) FLAT PACKAGE

TC7SU04F (TOSHIBA) FLAT PACKAGE

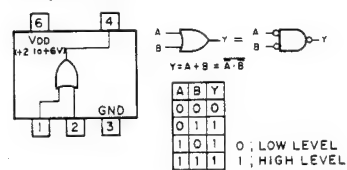
C-MOS INVERTER
- TOP VIEW -



SC7S32F (MOTOROLA) CHIP PACKAGE

TC7S32F (TOSHIBA) CHIP PACKAGE

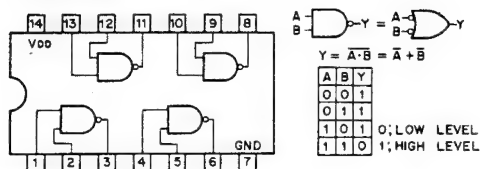
C-MOS 2-INPUT OR GATE
- TOP VIEW -



SN74HC00ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-INPUT NAND GATE

- TOP VIEW -



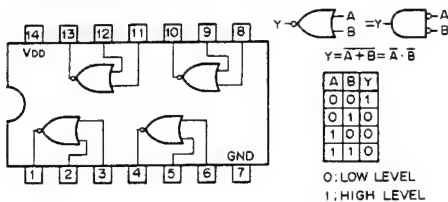
NOTE:

TYPE	V _{DD}
TC74AC00P TC74AC00F	+2 to +5.5V
MC74HCT00N 74ACT00PC	+5V
OTHER TYPES	+2 to +6V

SN74HC02ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-INPUT NOR GATE

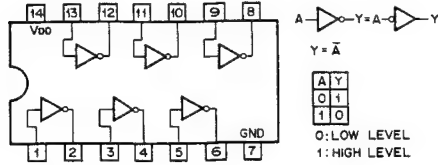
- TOP VIEW -



NOTE:

TYPE	V _{DD}
TC74AC02F	+2 to +5.5V
OTHER TYPES	+2 to +6V

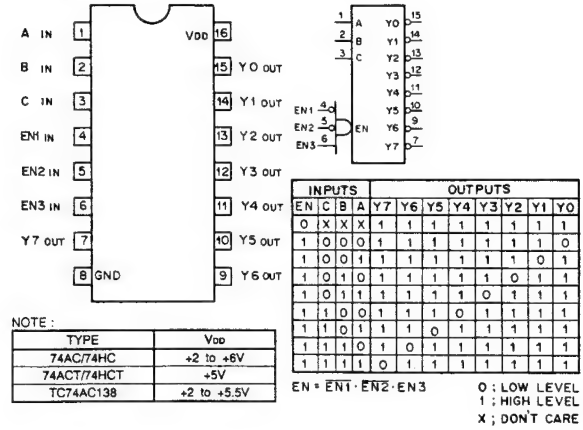
SN74HC04ANS (TI) FLAT PACKAGE
SN74HCU04AN (TI)
SN74HCU04ANS (TI) FLAT PACKAGE
C-MOS HEX INVERTERS
- TOP VIEW -



NOTE:

TYPE	V _{DD}
74ACT04 TYPES	+5V
74HCT04 TYPES	+5V
TC74AC04F	+2 to +5.5V
TC74ACT04F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

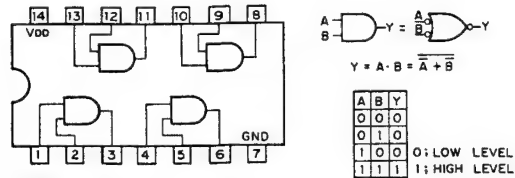
SN74HC138ANS (TI) FLAT PACKAGE
C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
- TOP VIEW -



NOTE:

TYPE	V _{DD}
74AC74HC	+2 to +6V
74ACT74HCT	+5V
TC74AC138	+2 to +5.5V

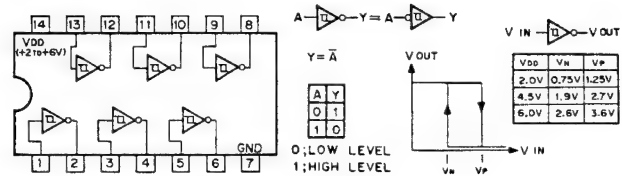
SN74HC08ANS (TI) FLAT PACKAGE
C-MOS QUAD 2-INPUT AND GATE
- TOP VIEW -



NOTE:

TYPE	V _{DD}
TC74AC08F	+2 to +5.5V
OTHER TYPES	+2 to +6V

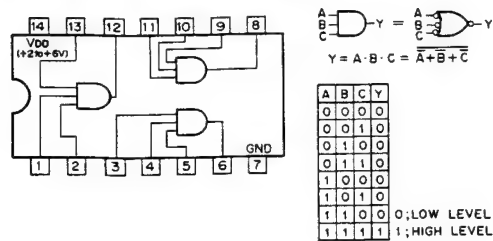
SN74HC14ANS (TI) FLAT PACKAGE
C-MOS SCHMITT TRIGGER INVERTER
- TOP VIEW -



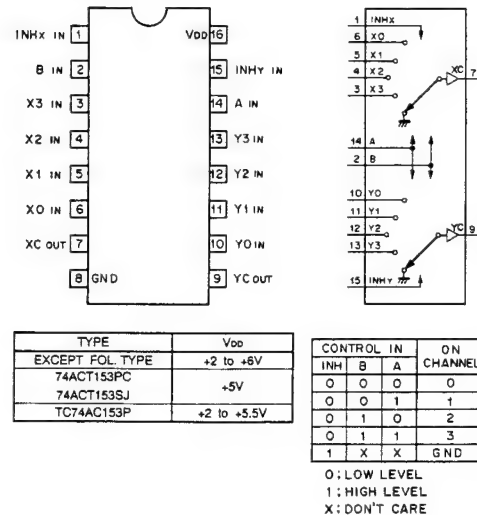
NOTE:

TYPE	V _{DD}
74AC74HC	+2 to +6V
TC74AC14	+2 to +5.5V

SN74HC11ANS (TI) FLAT PACKAGE
SN74HC11NS (TI) FLAT PACKAGE
C-MOS 3-INPUT POSITIVE-AND GATE



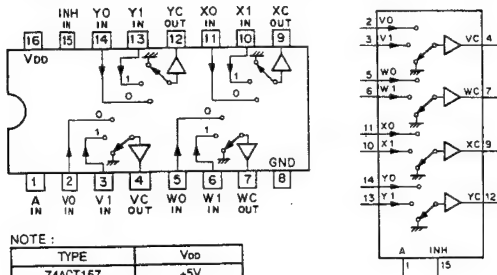
SN74HC153ANS (TI) FLAT PACKAGE
C-MOS DUAL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -



NOTE:

TYPE	V _{DD}
EXCEPT FOL TYPE	+2 to +6V
74ACT153PC	+5V
TC74AC153P	+2 to +5.5V

SN74HC157ANS (TI) FLAT PACKAGE

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -

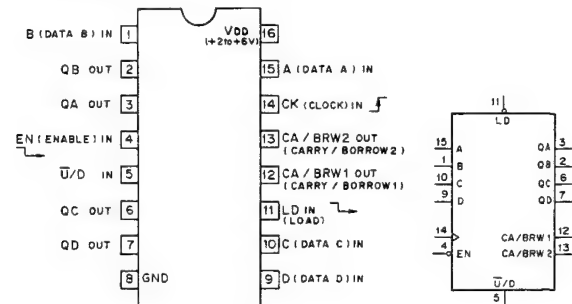
NOTE:

TYPE	V _{DD}
74ACT157	+5V
TC74AC157P	+2 to +5.5V
TC74AC157F	+2 to +6V
OTHER TYPES	+2 to +6V

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

CONT. IN	ON CHANNEL
INH A	0
0 1	1
1 X	GND

SN74HC191NS (TI) FLAT PACKAGE

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
- TOP VIEW -

MODE SELECTION

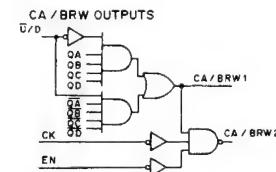
CONTROL INPUTS	MODE
LD EN U/D	
0 X X	PRESET (ASYNCHRONOUS)
1 1 X	NO COUNT
1 0 0	UP COUNT
1 0 1	DOWN COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

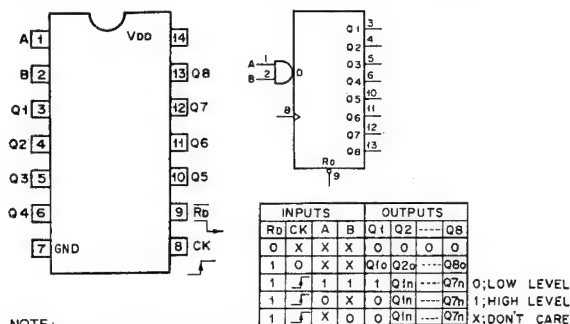
UP COUNT
DOWN COUNT



CA/BRW1 OUTPUT IS HIGH WHEN COUNT IS "15" AT UP-COUNT OR WHEN COUNT IS "0" AT DOWN COUNT.

CA/BRW2 OUTPUT IS LOW WHEN BOTH THE CLOCK AND EN INPUTS ARE LOW AND CA/BRW1 OUTPUT IS HIGH.

SN74HC164NS (TI) FLAT PACKAGE

C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER
- TOP VIEW -

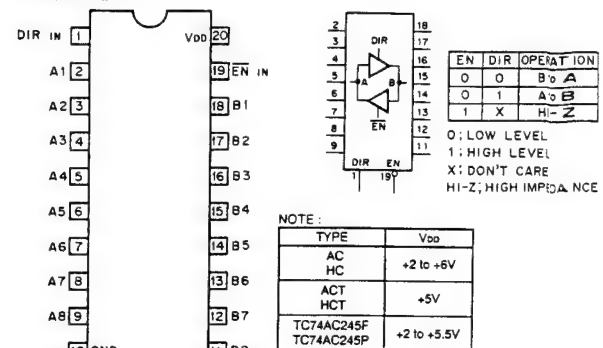
NOTE:

TYPE	V _{DD}
TC74AC164F	+2 to +5.5V
OTHER TYPES	+2 to +6V

INPUTS	OUTPUTS
R0 CK A B Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	
0 X X X X 0 0 0 0 0 0 0 0	
1 0 X X X Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	
1 1 1 1 1 Q1n Q2n Q3n Q4n Q5n Q6n Q7n Q8n	
1 1 0 X 0 Q1n Q2n Q3n Q4n Q5n Q6n Q7n Q8n	
1 1 X 0 0 Q1n Q2n Q3n Q4n Q5n Q6n Q7n Q8n	

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74HC245ANS (TI) FLAT PACKAGE

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -

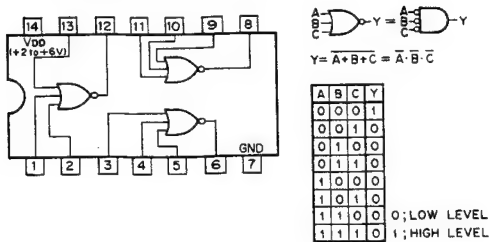
NOTE:

TYPE	V _{DD}
AC HC	+2 to +6V
ACT HCT	+5V
TC74AC245F	+2 to +5.5V
TC74AC245P	+2 to +5.5V

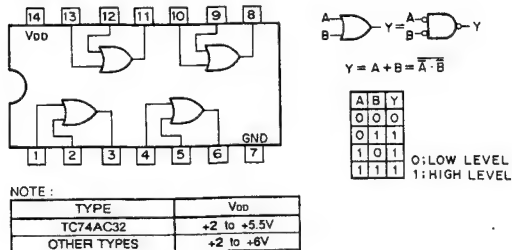
EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	Hi-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

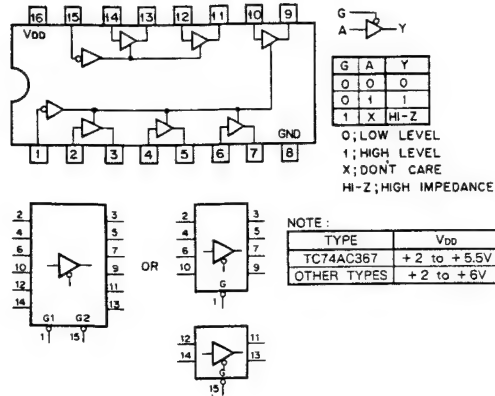
SN74HC27NS (TI) FLAT PACKAGE
C-MOS 3-LINE POSITIVE-NOR GATE
- TOP VIEW -



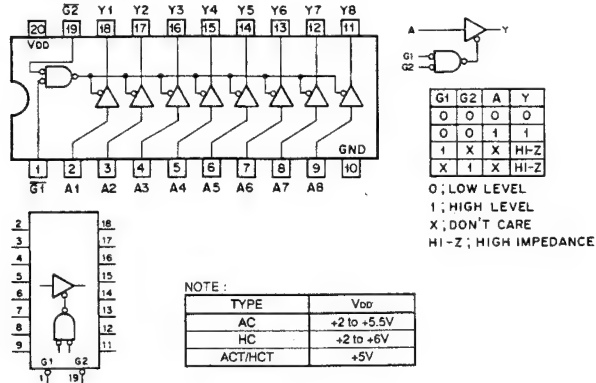
SN74HC32ANS (TI) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
- TOP VIEW -



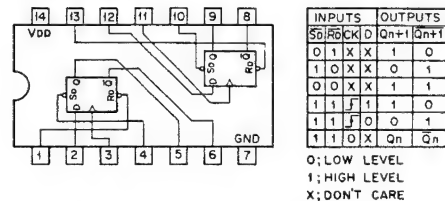
SN74HC367ANS (TI) FLAT PACKAGE
C-MOS BUS DRIVER WITH 3-STATE OUTPUTS
- TOP VIEW -



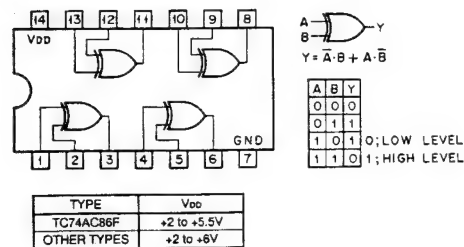
SN74HC541ANS (TI) FLAT PACKAGE
C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS
- TOP VIEW -



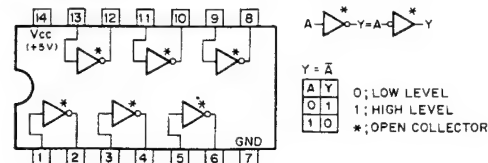
SN74HC74ANS (TI) FLAT PACKAGE
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
- TOP VIEW -



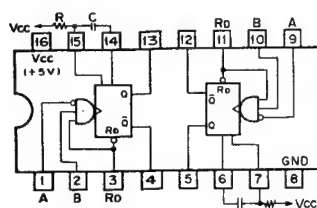
SN74HC86ANS (TI) FLAT PACKAGE
C-MOS EXCLUSIVE OR GATE
- TOP VIEW -



SN74LS06NS (TI) FLAT PACKAGE
TTL INVERTER BUFFER/DRIVER WITH OPEN-COLLECTOR
- TOP VIEW -



SN74LS123NS (TI) FLAT PACKAGE

TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET
- TOP VIEW -

INPUTS		OUTPUTS	
Rd	A	B	Q
0	X	X	0
X	1	X	0
X	X	0	1
1	0	1	1
1	1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH

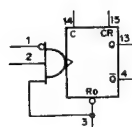
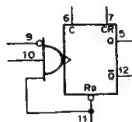
$$t_{123}; T_w = 0.28 \left(1 + \frac{700}{R}\right) CR$$

$$t_{123}; T_w = 0.33 \left(1 + \frac{700}{R}\right) CR$$

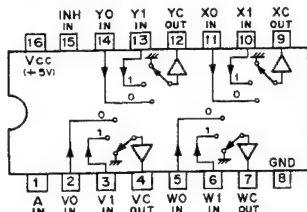
$$t_{123}; T_w = 0.25 \left(1 + \frac{700}{R}\right) CR$$

$$t_{123}; T_w = 0.29 \left(1 + \frac{700}{R}\right) CR$$

$$t_{123}; T_w = 0.45 CR$$

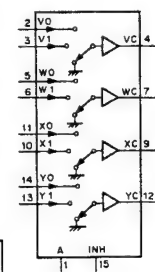


SN74LS157NS (TI) FLAT PACKAGE

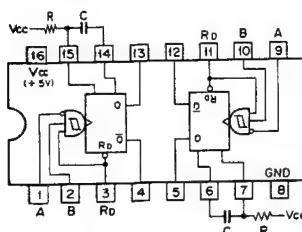
TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
- TOP VIEW -

CONT. IN	INH	A	ON CHANNEL
0	0	0	0
1	0	1	1
1	X	GND	

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE



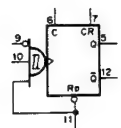
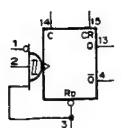
SN74LS221NS (TI) FLAT PACKAGE

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
- TOP VIEW -

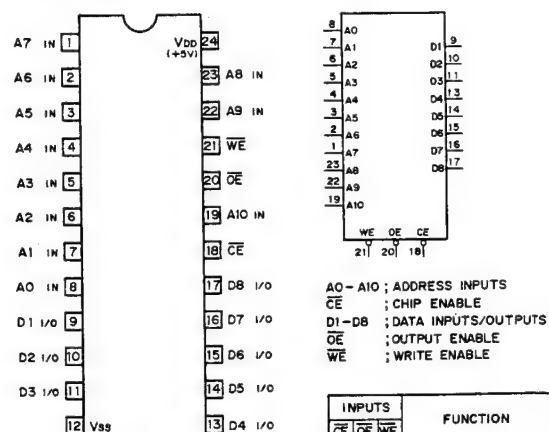
INPUTS		OUTPUTS	
Rd	A	B	Q
0	X	X	0
X	1	X	0
X	X	0	1
1	0	1	1
1	1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH = 0.7 CR



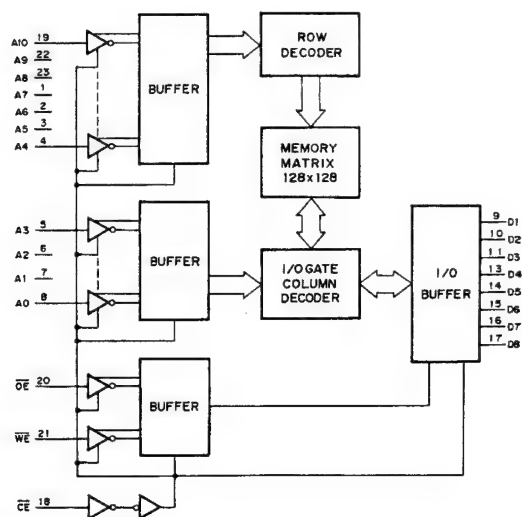
SRM2016M10 (SEIKO EPSON) FLAT PACKAGE

C-MOS 16384-BIT (2048x8) STATIC RAM
- TOP VIEW -

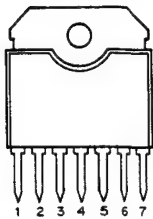
A0-A10; ADDRESS INPUTS
CE; CHIP ENABLE
D1-D8; DATA INPUTS/OUTPUTS
OE; OUTPUT ENABLE
WE; WRITE ENABLE

INPUTS		FUNCTION	
CE	OE	WE	
1	X	X	NO SELECTION(HI-Z)
0	1	1	OUTPUT DISABLE(HI-Z)
0	0	1	READ
0	X	0	WRITE

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

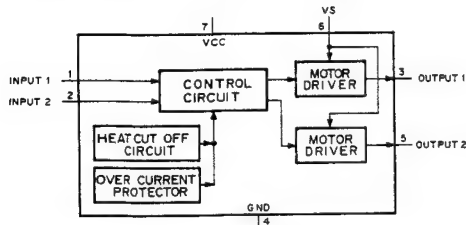


TA7267P (TOSHIBA)
DC MOTOR DRIVER
- PRINTED SIDE VIEW -

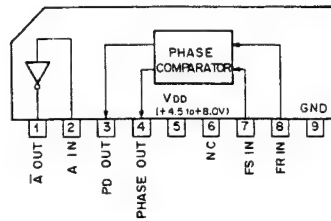


INPUTS		OUTPUTS		MODE
1	2	1	2	
1	1	0	0	BRAKE
0	1	0	1	ROTATION / REV. ROTATION
1	0	1	0	REV. ROTATION / ROTATION
0	0	HI-Z	STOP	

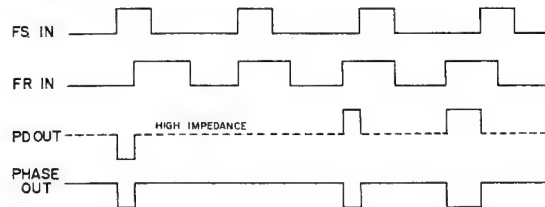
0 : LOW LEVEL
1 : HIGH LEVEL
HI-Z : HIGH IMPEDANCE



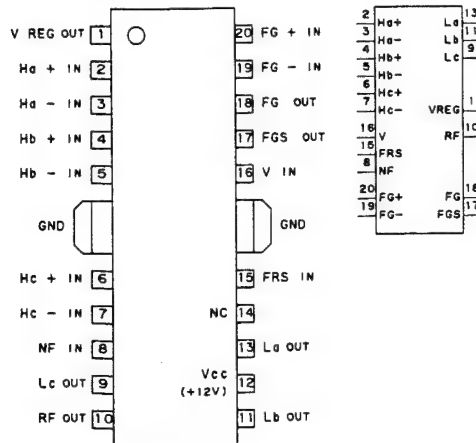
TC5081AP (TOSHIBA)
C-MOS PHASE COMPARATOR
- SIDE VIEW -



PHASE COMPARATOR TIMING CHART

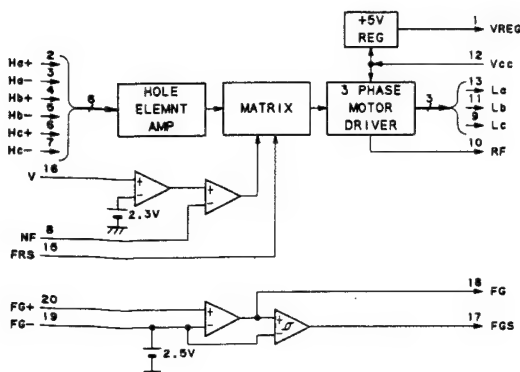


TA8424F (TOSHIBA)
MOTOR DRIVER FOR DIRECT CURRENT COMPACT MOTOR
- TOP VIEW -

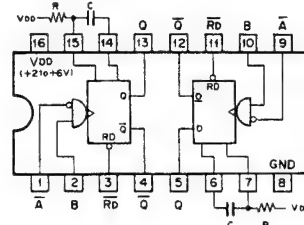


INPUT
FG +/- : FG INPUT AMP
FRS : MOTOR ROTATIONAL DIRECTION CONTROL
Ha, Hb, Hc +/- : HOLE ELEMENT AMP
NF : FEEDBACK OUTPUT CURRENT
V : CONTROL VOLTAGE

OUTPUT
FG : FG GAIN AMP
FGS : FG HYSTERESIS AMP
La, Lb, Lc : 3 PHASE MOTOR DRIVE
RF : OUTPUT CURRENT DETECTOR
V REG : VOLTAGE REGULATOR



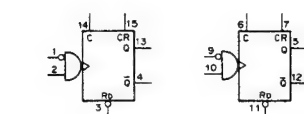
TC74HC123AF (TOSHIBA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -



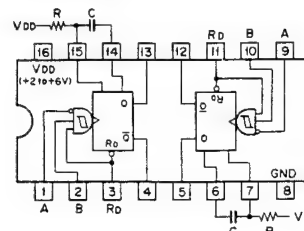
INPUT		OUTPUT	
RD	A B	Q	Q
0	X X	0	1
1	1 X	0	1
1	X 0	0	1
1	0 1	1	0
1	1 1	1	0
1	0 0	1	0

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

OUTPUT PULSE WIDTH = 0.46CR



TC74HC221AF (TOSHIBA) FLAT PACKAGE
C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
- TOP VIEW -

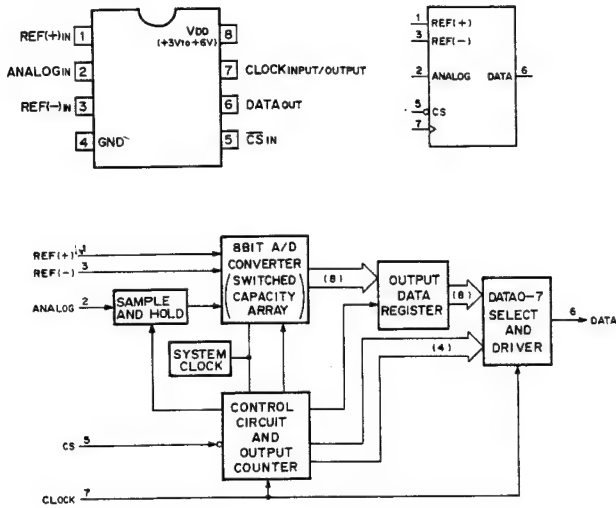


INPUTS		OUTPUTS	
RD	A B	Q	Q
0	X X	0	1
X	1 X	0	1
X	X 0	0	1
1	0 1	1	0
1	1 1	1	0
1	0 0	1	0

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

OUTPUT PULSE WIDTH = 0.7CR

TLC549IPS (TI) FLAT PACKAGE
C-MOS 8 BIT A/D CONVERTER
- TOP VIEW -



MCU MODE

INPUT
AN0 - AN5 : ANALOG INPUT
CTS : CLEAR TO SEND THE SERIAL DATA
EA : EXTERNAL ACCESS
INT0 - INT2 : INTERRUPT REQUEST PIN 0 - 2
NMI : NON MASKABLE INTERRUPT REQUEST PIN
P30 - P31, 34, 37 : PORT 30, 31, 34, 37
P50 - P55 : PORT 5
P80, 81, 82 : PORT 80, 81, 82
RESET : RESET
RXD : SERIAL RECEIVE DATA
TXD, 5 : TIMER INPUT 4, 5
WAIT : WAIT

OUTPUT
A0 - A7 : ADDRESS BUS
A16 - A19 : ADDRESS BUS
A8 - A15 : ADDRESS BUS
CLK : CLOCK OUTPUT
M00 - M03 : STEPPING MOTOR CONTROL PORT 0
M10 - M13 : STEPPING MOTOR CONTROL PORT 1
P32, 33, 35, 36 : PORT 32, 33, 35, 36
P40 - P43 : PORT 4
P83 : PORT 83
RD : READ
RTS : REQUEST TO SEND THE SERIAL DATA
SCLK : SERIAL CLOCK OUTPUT
T01, 3 - 5 : TIMER OUTPUT 1, 3 - 5
TXD : SERIAL SEND DATA
WR : WRITE

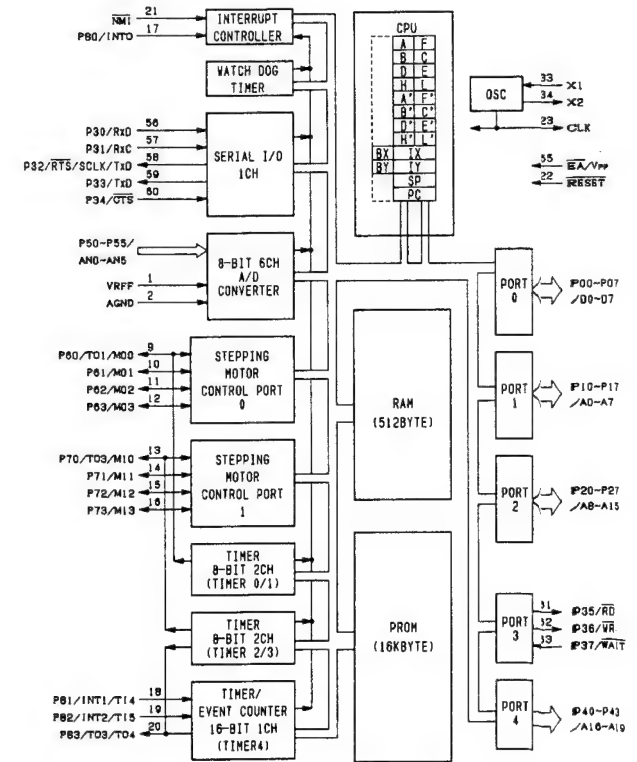
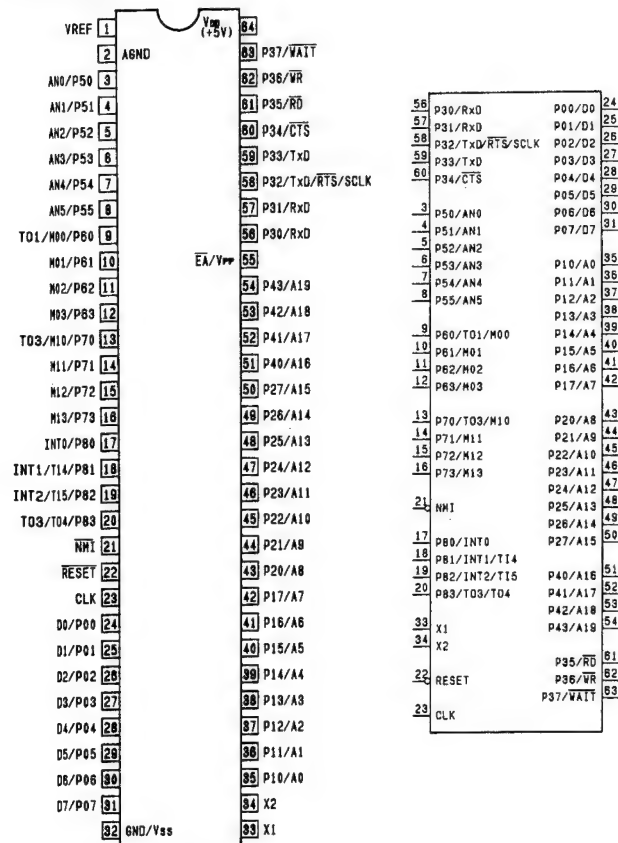
INPUT/OUTPUT
D0 - D7 : DATA BUS
P00 - P07 : PORT 0
P10 - P17 : PORT 1
P20 - P27 : PORT 2
P60 - P63 : PORT 6
P70 - P73 : PORT 7
X1, 2 : CRYSTAL OSCILLATION CONNECTION PIN

PROM MODE

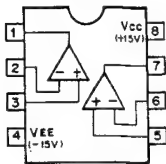
INPUT
A14, 15 : FIXED TO LOW LEVEL
A0 - A7, A8 - A13 : PROGRAM MEMORY ADDRESS INPUT

INPUT/OUTPUT
D0 - D7 : PROGRAM MEMORY DATA INPUT/OUTPUT

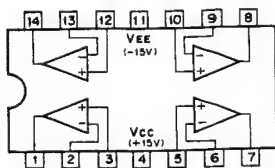
TMP91C640N-2306 (TOSHIBA)
C-MOS 8-BIT MICROCONTROLLER
- TOP VIEW -



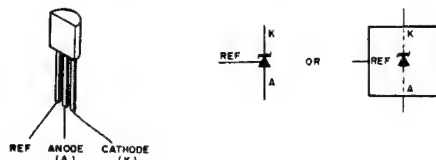
TL072ACP (TI)
OPERATIONAL AMPLIFIER
(LOW-NOISE, JFET-INPUT)
- TOP VIEW -



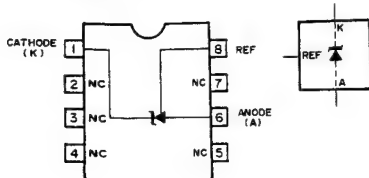
TL084CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -



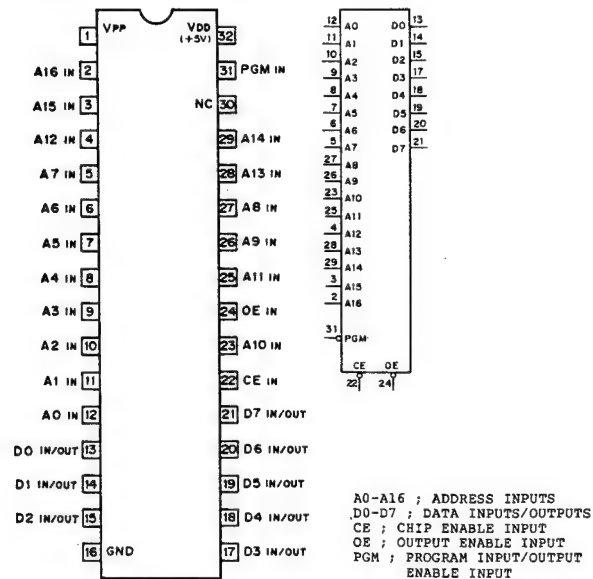
TL431CLP (TI)
ADJUSTABLE PRECISION SHUNT REGULATOR



TL431CPS (TI) FLAT PACKAGE
ADJUSTABLE PRECISION SHUNT REGULATOR
- TOP VIEW -

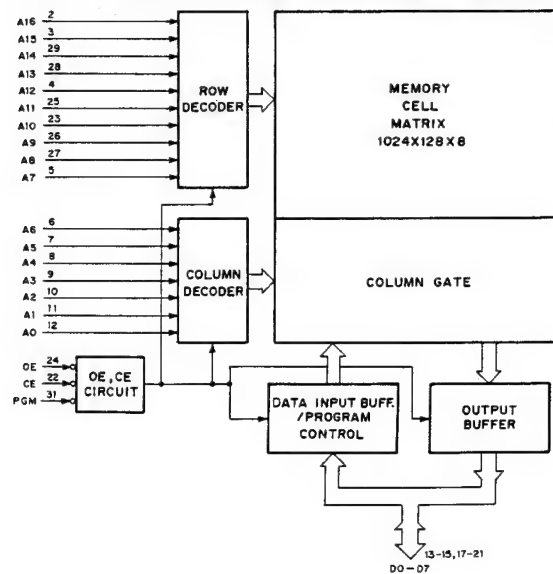


TMS27C010A-15JL (TI)
C-MOS 1M (131072x8)-BIT EPROM
- TOP VIEW -

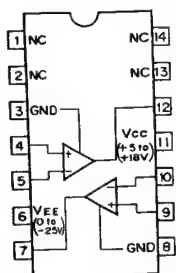


READ MODE ($V_{DD}=+5V$, $V_{PP}=+5V$)						
OE	CE	PGM	A0-A16	D0-D7	FUNCTION	
0	1	1	A IN	D OUT	ACTIVE	0; LOW LEVEL
X	1	X	X	HI-Z	STANDBY	1; HIGH LEVEL
1	0	X	A IN	HI-Z	OUTPUT	X; DON'T CARE
X	0	0	A IN	HI-Z	DISABLE	HI-Z; HIGH-IMPEDANCE

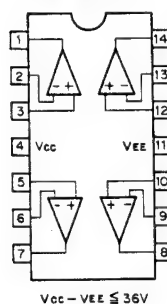
PROGRAM MODE ($V_{DD}=+5V$, $V_{PP}=+12.5V$)						
MODE	OE	CE	PGM	A0 - A16	D0-D7	FUNCTION
1-BYTE PROGRAM MODE	1	0	0	A IN	D IN	PROGRAM
	0	0	1	A IN	D OUT	VERIFY
	1	0	1	A IN	HI-Z	PROGRAM INHIBIT
	1	1	1	A IN	D IN	PROGRAM DATA INPUT
4-BYTE PROGRAM MODE	0	1	0	A0,A1 ; X A2-A16; A IN	HI-Z	PROGRAM
	0	0	1	A IN	D OUT	VERIFY
	0	1	1	A IN	HI-Z	PROGRAM INHIBIT



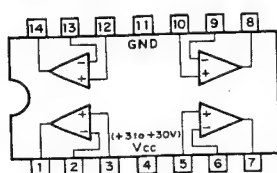
UPC319G2 (NEC) FLAT PACKAGE
DUAL VOLTAGE COMPARATOR
- TOP VIEW -



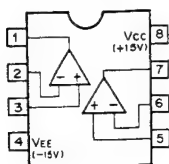
UPC4574G2 (NEC)
QUAD OPERATIONAL AMPLIFIER
- TOP VIEW -



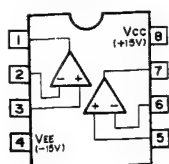
UPC324G2 (NEC) FLAT PACKAGE
QUAD. OP. AMPLIFIER
- TOP VIEW -



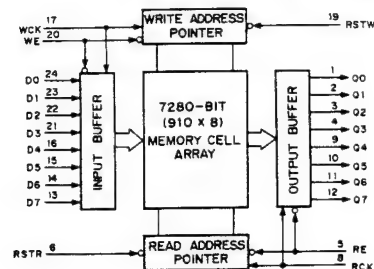
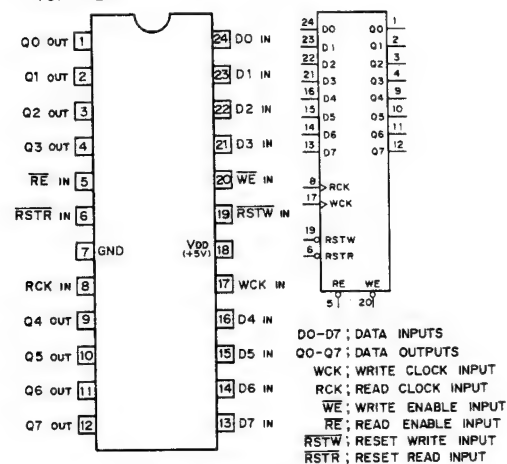
UPC4557C (NEC)
UPC4572C (NEC)
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)
- TOP VIEW -



UPC4570G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -

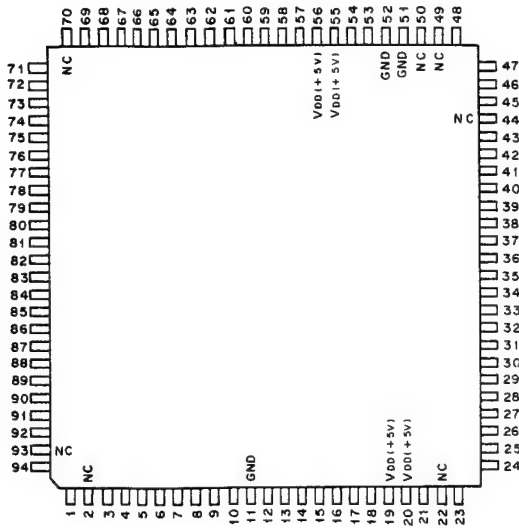


UPD42101C-3 (NEC)
C-MOS 7K (910x8)-BIT FIFO MEMORY
- TOP VIEW -



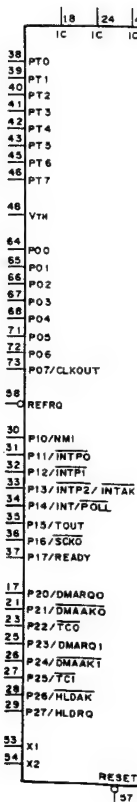
UPD70320GJ-8-5BG (NEC)

C-MOS SINGLE CHIP 16/8-BIT MICROCOMPUTER
- TOP VIEW -



(V_{DD} = +5V)

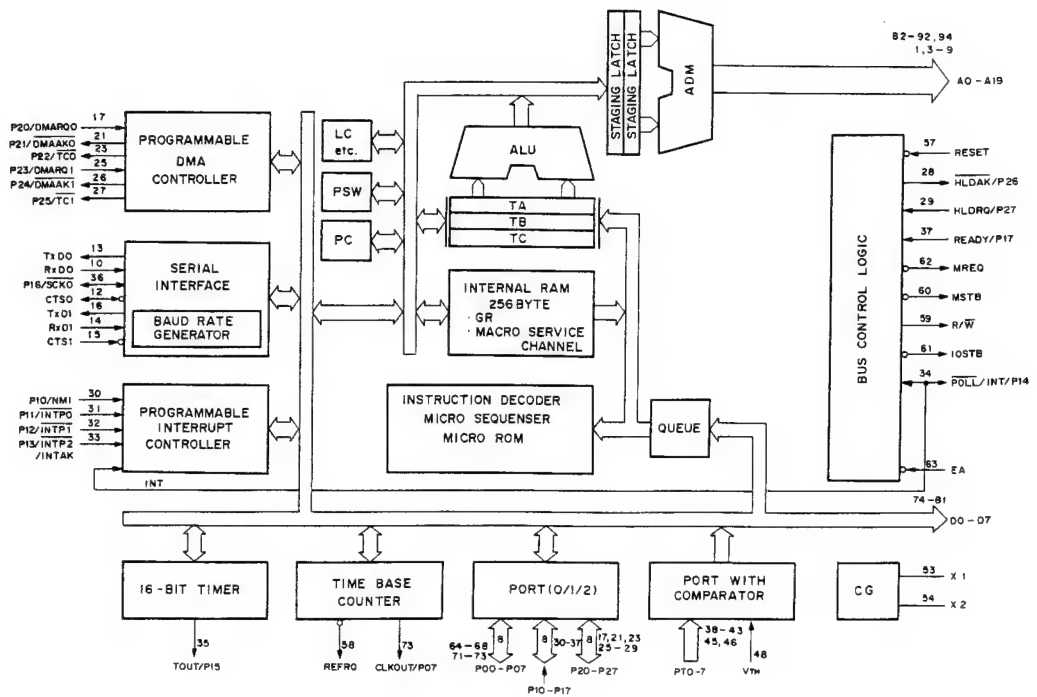
PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL
1	O	A12	33	I/O	P13/INTP2/INTAK	65	I/O	P01
2	-	NC	34	I/O	P14/INT/POLL	66	I/O	P02
3	O	A13	35	I/O	P15/TOUT	67	I/O	P03
4	O	A14	36	I/O	P16/SCKO	68	I/O	P04
5	O	A15	37	I/O	P17/READY	69	-	INT.CONNECT
6	O	A16	38	I	PT0	70	-	NC
7	O	A17	39	I	PT1	71	I/O	P05
8	O	A18	40	I	PT2	72	I/O	P06
9	O	A19	41	I	PT3	73	I/O	P07/CLKOUT
10	I	RxD0	42	I	PT4	74	I/O	D0
11	-	GND	43	I	PT5	75	I/O	D1
12	I/O	CTS0	44	-	NC	76	I/O	D2
13	O	TxD0	45	I	PT6	77	I/O	D3
14	I	RxD1	46	I	PT7	78	I/O	D4
15	I	CTS1	47	-	INT.CONNECT	79	I/O	D5
16	O	TxD1	48	-	VTH	80	I/O	D6
17	I/O	P20/DMAK0	49	-	NC	81	I/O	D7
18	-	INT.CONNECT	50	-	NC	82	O	A0
19	-	VDD	51	-	GND	83	O	A1
20	-	VDD	52	-	GND	84	O	A2
21	I/O	P21/DMAK0	53	-	X1	85	O	A3
22	-	NC	54	-	X2	86	O	A4
23	I/O	P22/TC0	55	-	VDD	87	O	A5
24	-	INT.CONNECT	56	-	VDD	88	O	A6
25	I/O	P23/DMAK1	57	I	RESET	89	O	A7
26	I/O	P24/DMAK1	58	O	REFRQ	90	O	A8
27	I/O	P25/TC1	59	O	R/W	91	O	A9
28	I/O	P26/HLDK	60	O	MSTB	92	O	A10
29	I/O	P27/HLDK	61	O	IOSTB	93	-	NC
30	I	P10/NMI	62	O	MREQ	94	O	A11
31	I	P11/INTP0	63	I	EA			
32	I	P12/INTP1	64	I/O	P00			



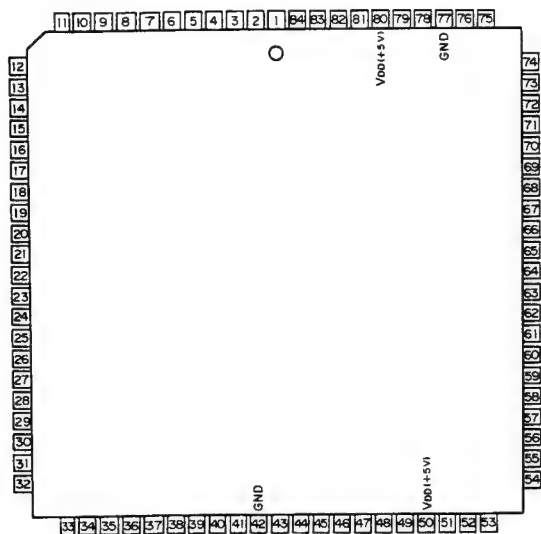
INPUT
DMARQ0 : DMA REQUEST CH0, CH1 INPUTS
DMARQ1 : ROM-LESS MODE SET INPUT
EA : HOLD REQUEST INPUT
HLDK : INTERRUPT REQUEST INPUTS
INTP0, INTP1 : INTERRUPT REQUEST INPUT
INTP2 : INTERRUPT REQUEST INPUT
INT/POLL : INTERRUPT REQUEST INPUT
NMI : NON-MASKABLE INTERRUPT INPUT
PT0 - PT7 : PORT 0 INPUTS
READY : READY INPUT
RESET : RESET INPUT
RXD0, RXD1 : SERIAL DATA INPUTS
VTH : REF. V FOR COMPARATOR INPUT
X1, X2 : CRYSTAL 1, 2

OUTPUT
A0 - A19 : ADDRESS BUS OUTPUTS
CLKOUT : SYSTEM CLOCK OUTPUT
DMAK0 : DMA ACKNOWLEDGE CH0, CH1 OUTPUTS
DMAK1 : HOLD ACKNOWLEDGE OUTPUT
HLDK : INTERRUPT ACKNOWLEDGE OUTPUT
IOSTB : I/O READ/WRITE STROBE OUTPUT
MREQ : MEMORY REQUEST OUTPUT
MSTB : MEMORY READ/WRITE STROBE OUTPUT
REFRQ : REFRESH REQUEST OUTPUT
R/W : READ AND WRITE CYCLE OUTPUT
SCKO : SERIAL CLOCK OUTPUT
TC0, TC1 : DMA (CH0/CH1) ENDING OUTPUTS
TOUT : TIMER OUTPUT
TXD0, TXD1 : SERIAL DATA OUTPUTS

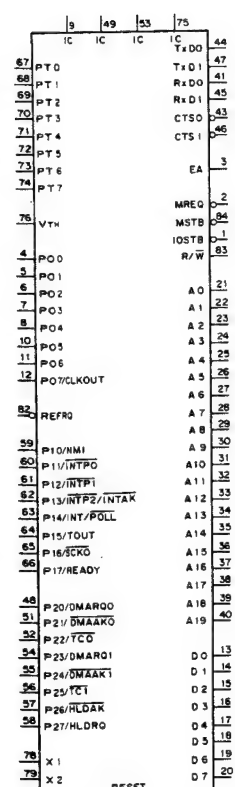
INPUT/OUTPUT
CTS0, CTS1 : CLEAR TO SEND INPUT/OUTPUT
D0 - D7 : DATA BUS INPUTS/OUTPUTS
P00 - P07 : PORT 0 INPUTS/OUTPUTS
P10 - P17 : PORT 1 INPUTS/OUTPUTS
P20 - P27 : PORT 2 INPUTS/OUTPUTS



UPD70320L-8 (NEC)
C-MOS 16-BIT MICROPROCESSOR
- TOP VIEW -

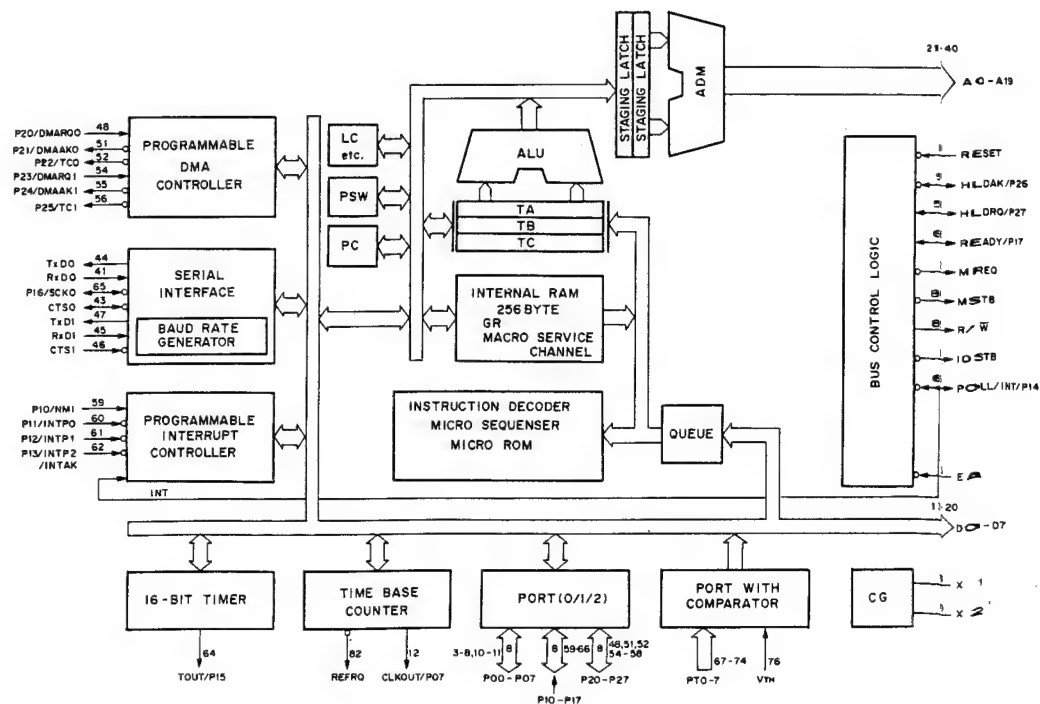


PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL
1	O	IOSTB	29	O	A8	57	I/O	P26/HLDAK
2	O	MREQ	30	O	A9	58	I/O	P27/HLDRO
3	I	EA	31	O	A10	59	I/O	P10/NMI
4	I/O	P00	32	O	A11	60	I/O	P11/INTP0
5	I/O	P01	33	O	A12	61	I/O	P12/INTP1
6	I/O	P02	34	O	A13	62	I/O	P13/INTP2/INTAK
7	I/O	P03	35	O	A14	63	I/O	P14/INT/POLL
8	I/O	P04	36	O	A15	64	I/O	P15/TOUT
9	—	IC	37	O	A16	65	I/O	P16/SCKO
10	I/O	P05	38	O	A17	66	I/O	P17/READY
11	I/O	P06	39	O	A18	67	I	PT0
12	I/O	P07/CLKOUT	40	O	A19	68	I	PT1
13	I/O	D0	41	I	RXD0	69	I	PT2
14	I/O	D1	42	—	GND	70	I	PT3
15	I/O	D2	43	I/O	CTSD	71	I	PT4
16	I/O	D3	44	O	TXD0	72	I	PT5
17	I/O	D4	45	I	RXD1	73	I	PT6
18	I/O	D5	46	I	CTS1	74	I	PT7
19	I/O	D6	47	O	TXD1	75	—	IC
20	I/O	D7	48	I/O	P20/DMAK0	76	I	VTH
21	O	A0	49	—	IC	77	—	GND
22	O	A1	50	I	VDD(+5V)	78	—	X1
23	O	A2	51	I/O	P21/DMAK0	79	—	X2
24	O	A3	52	I/O	P22/TC0	80	I	VDD(-5V)
25	O	A4	53	—	IC	81	I	RESET
26	O	A5	54	I/O	P23/DMAK1	82	O	REFRQ
27	O	A6	55	I/O	P24/DMAK1	83	O	R/W
28	O	A7	56	I/O	P25/TC1	84	O	MSTB



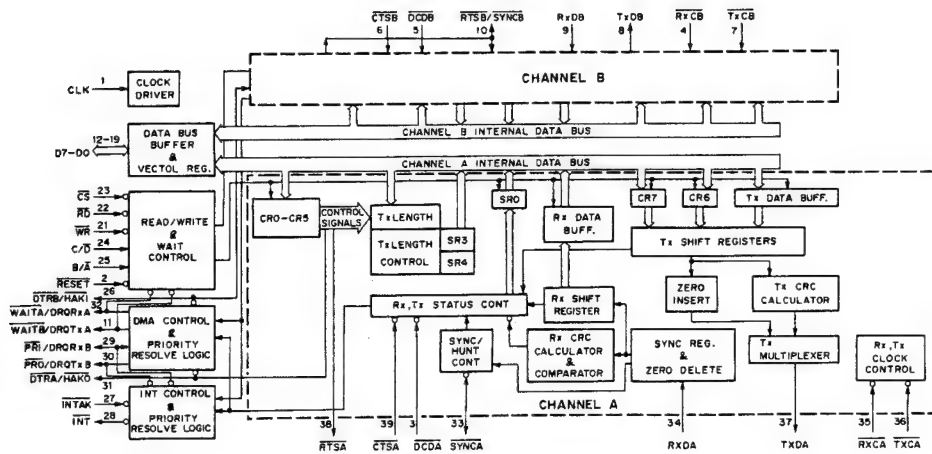
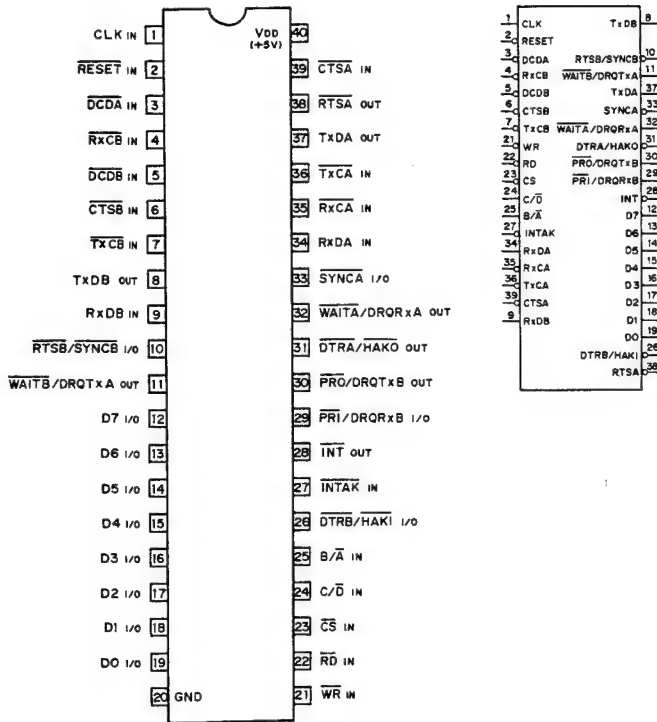
A0 - A19 : ADDRESS BUS OUTPUTS
CLKOUT : SYSTEM CLOCK OUTPUT
CTSD, CTS1 : CLEAR TO SEND INPUT/OUTPUT
D0 - D7 : DATA BUS INPUTS/OUTPUTS
DMAK0, DMAK1 : DMA ACKNOWLEDGE CH0, CH1 OUTPUTS
DMARQ0, DMARQ1 : DMA REQUEST CH0, CH1 INPUTS
EA : ROM-LESS MODE SET INPUT
HLDRO : HOLD ACKNOWLEDGE OUTPUT
HLDRO : HOLD REQUEST INPUT
IC : INTERNAL CONNECT
INTP0, INTP1 : INTERRUPT REQUEST INPUTS
INTP2 : INTERRUPT REQUEST INPUT
INTAK : INTERRUPT ACKNOWLEDGE OUTPUT
IOSTB : I/O READ/WRITE STROBE OUTPUT
MREQ : MEMORY REQUEST OUTPUT
MSTB : MEMORY READ/WRITE STROBE OUTPUT
NMI : NON-MASKABLE INTERRUPT INPUT

P00 - P07 : PORT 0 INPUTS/OUTPUTS
P10 - P17 : PORT 1 INPUTS/OUTPUTS
P20 - P27 : PORT 2 INPUTS/OUTPUTS
PT0 - PT7 : PORT 0 INPUTS
INT/POLL : INTERRUPT REQUEST INPUT
READY : READY INPUT
REFRQ : REFRESH REQUEST OUTPUT
RESET : RESET INPUT
R/W : READ AND WRITE CYCLE OUTPUT
RXD0, RXD1 : SERIAL DATA INPUTS
SCKO : SERIAL CLOCK OUTPUT
TC0, TC1 : DMA (CH0/CH1) ENDING OUTPUTS
TOUT : TIMER OUTPUT
TXD0, TXD1 : SERIAL DATA OUTPUTS
VTH : REF. V FOR COMPARATOR INPUT
X1, X2 : CRYSTAL 1, 2



UPD7201AC (NEC)

N-MOS MULTI-PROTOCOL SERIAL CONTROLLER - TOP VIEW -



CLK; SYSTEM CLOCK
D7-DO; DATA BUS
CS; CHIP SELECT
WR; WRITE
RD; READ
C/D; CONTROL/DATA
B/A; CHANNEL B/CHANNEL A
INT; INTERRUPT REQUEST
INTAK; INTERRUPT ACKNOWLEDGE
PRI/DRQRxB; PRIORITY INPUT/DMA REQUEST Rx B
PRO/DRQTXB; PRIORITY OUTPUT/DMA REQUEST Tx B
WAITA/DRQRxA; WAIT A/DMA REQUEST Rx A
WAITB/DRQTXA; WAIT B/DMA REQUEST Tx A
DTRB/HAKI; DATA TERMINAL READY/HOLD ACKNOWLEDGE INPUT
DTRA/HAKO; DATA TERMINAL READY/HOLD ACKNOWLEDGE OUTPUT
RxDA, RxDB; RECEIVE DATA A/B
TxDA, TXDB; TRANSMIT DATA A/B
RxCa, RxCB; RECEIVE CLOCK A/B
TxCA, TXCB; TRANSMIT CLOCK A/B
SYNCA; SYNCHRONIZATION A
RTSB/SYNCB; REQUEST TO SEND B/SYNCHRONIZATION B

CHANNEL SELECTION

B/A	C/D	WR	RD	CS	FUNCTION
0	0	0	1	0	CHANNEL A WRITE (Tx D)
0	0	0	0	1	CHANNEL B READ (Rx D)
0	1	0	1	0	CHANNEL A WRITE (COMMAND/PARAMETER REGISTER)
0	1	0	0	1	CHANNEL B READ (STATUS/VECTOR REGISTER)
1	1	1	0	0	CHANNEL A READ (STATUS/VECTOR REGISTER)
1	1	1	1	0	CHANNEL B READ (STATUS/VECTOR REGISTER)

CTSA, CTSB; CLEAR TO SEND A/B
DCDA, DCDB; DATA CARRIER DETECT A/B
RTSA; REQUEST TO SEND A

SECTION 18

REPLACEABLE PART AND OPTIONAL FIXTURE

18-1. NOTES ON REPAIR PARTS

(1) Safety Related Components Warning

Components marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear in this manual or in service bulletin and service manual supplements published by Sony.

(2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts". This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present"

(3) Changes of Parts

Regarding engineering parts changes, refer to "Section 19. CHANGED PART".

(4) Stock of Parts

Parts marked with "o" SP(Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(5) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors : μF

Inductors : μH

Resistors : Ω

(6) Tension Spring

($\times \times \text{T}$) after a tension spring is shown on the parts list in order to indicate the number of spring turns required for the use.

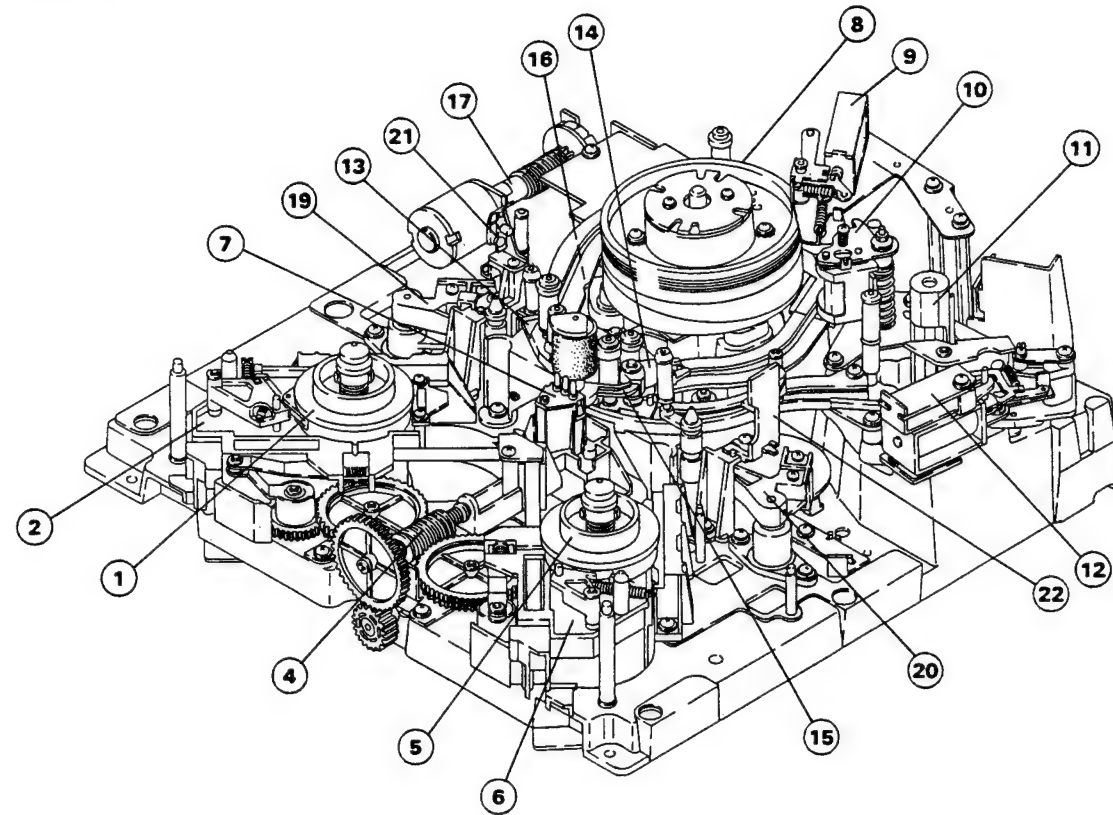
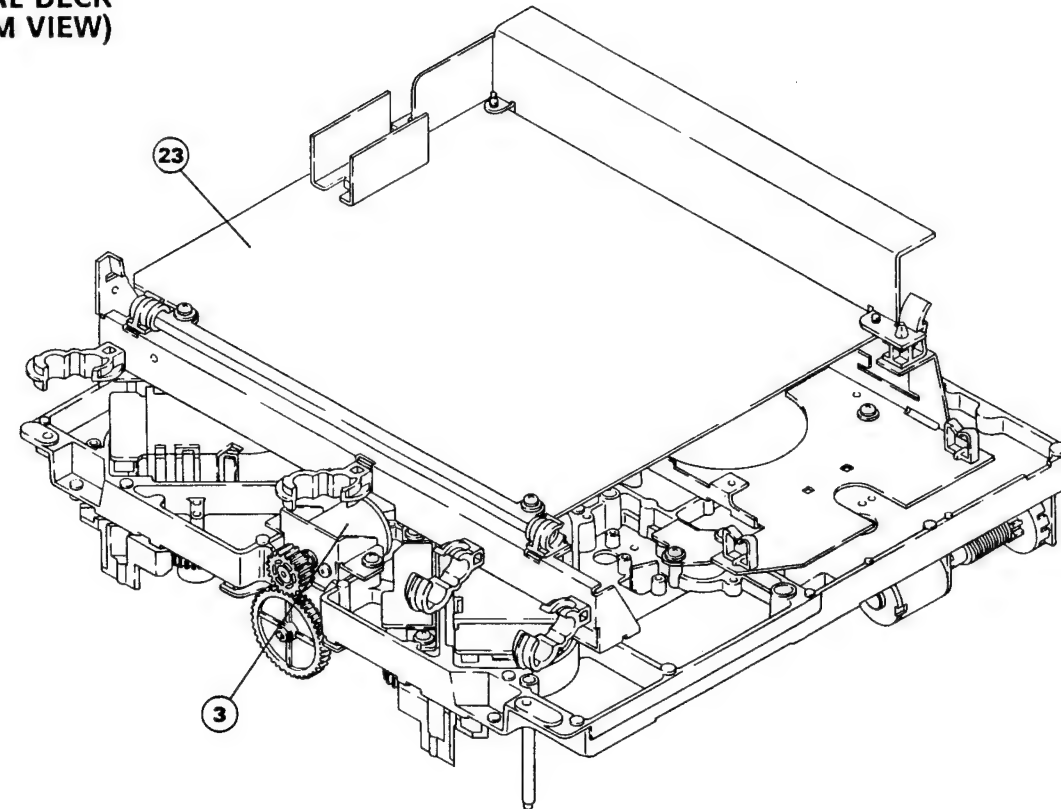
(Example) TENSION, SPRING(20 T) :

This spring must be cut at its 20 th turn for actual use.

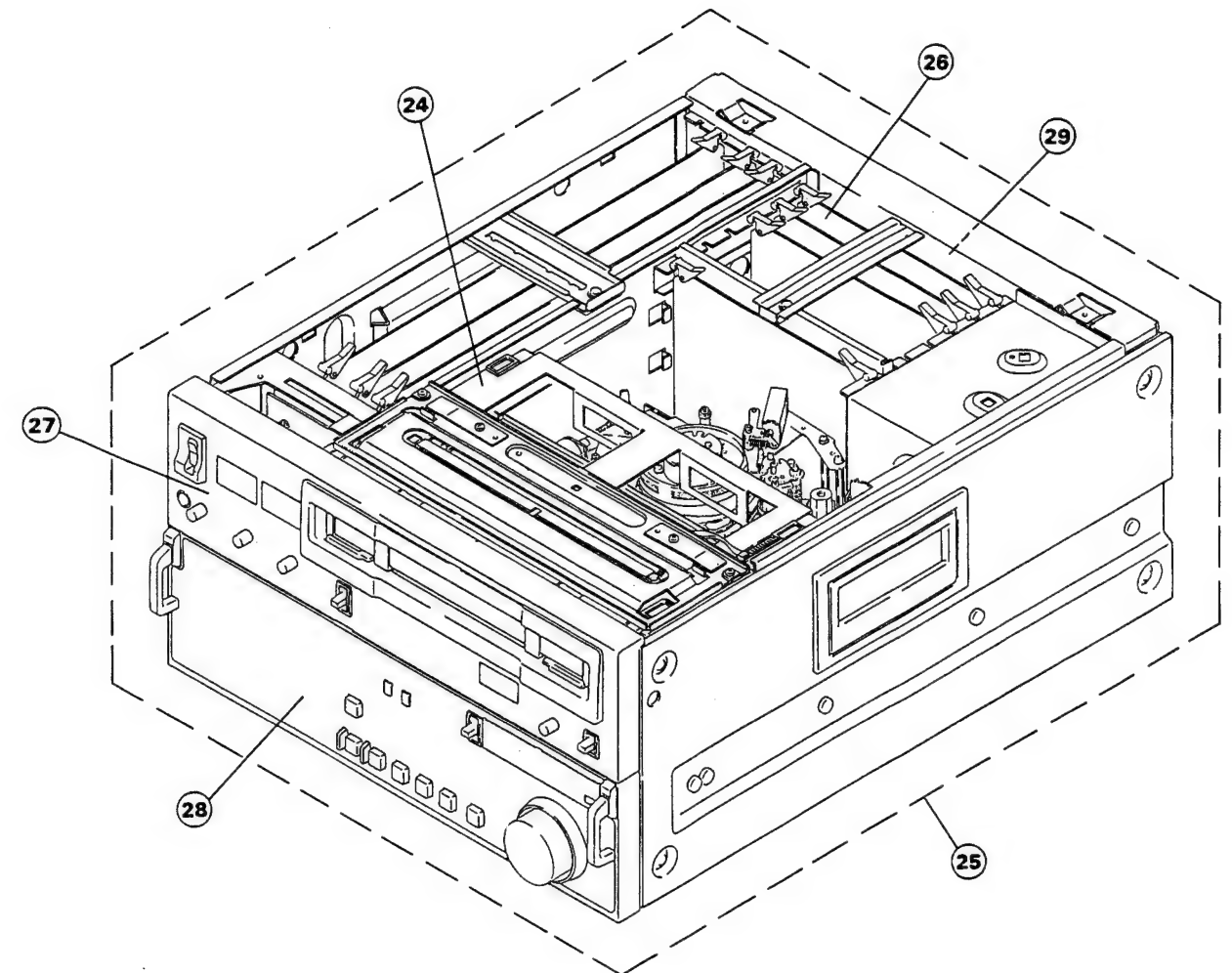
18-2. EXPLODED VIEW

Index of Main Mechanical Parts / Components

Mark	Item	Title	Page
① ② ③ ④	S Reel Table RS Table (S) Block LS Motor Block LS Gear Block	REEL CHASSIS (1)	18-4
⑤ ⑥ ⑦	T Reel Table RS Table (T) Block Cassette Sensor	REEL CHASSIS (2)	18-7
⑧ ⑨	Head Drum Cleaning Roller Block	DRUM & CLEANING ROLLER ASSEMBLY	18-8
⑩ ⑪ ⑫	Audio/TC Head Capstan Motor Pinch Solenoid Block	HEAD & PINCH PRESS ASSEMBLY	18-11
⑬ ⑭ ⑮	S Slider T Slider P Slider	RAIL & SLIDER ASSEMBLY	18-12
⑯	Threading Ring	THREADING RING	18-15
⑰	Threading Gear Box	THREADING GEAR BOX ASSEMBLY	18-17
⑲ ⑳ ㉑ ㉒	S Tension Regulator T Tension Regulator Tape End Sensor Tape Beginning Sensor	TENSION REGULATOR ASSEMBLY	18-19
㉓	Printed Circuit Board	REEL CHASSIS (3)	18-21
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㉕	Upper Lid Bottom Panel Cabinet (right) Cabinet (left)	CHASSIS & ORNAMENTAL PANEL BLOCK	18-24
㉖	Printed Circuit Boards	CARD RACK BLOCK	18-27
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㉘	Key Panel Search Dial	FUNCTION CONTROL PANEL BLOCK	18-31
㉙	Connector Panel	REAR PANEL BLOCK	18-32

MECHANICAL DECK
(TOP VIEW)MECHANICAL DECK
(BOTTOM VIEW)

OVERALL BLOCK

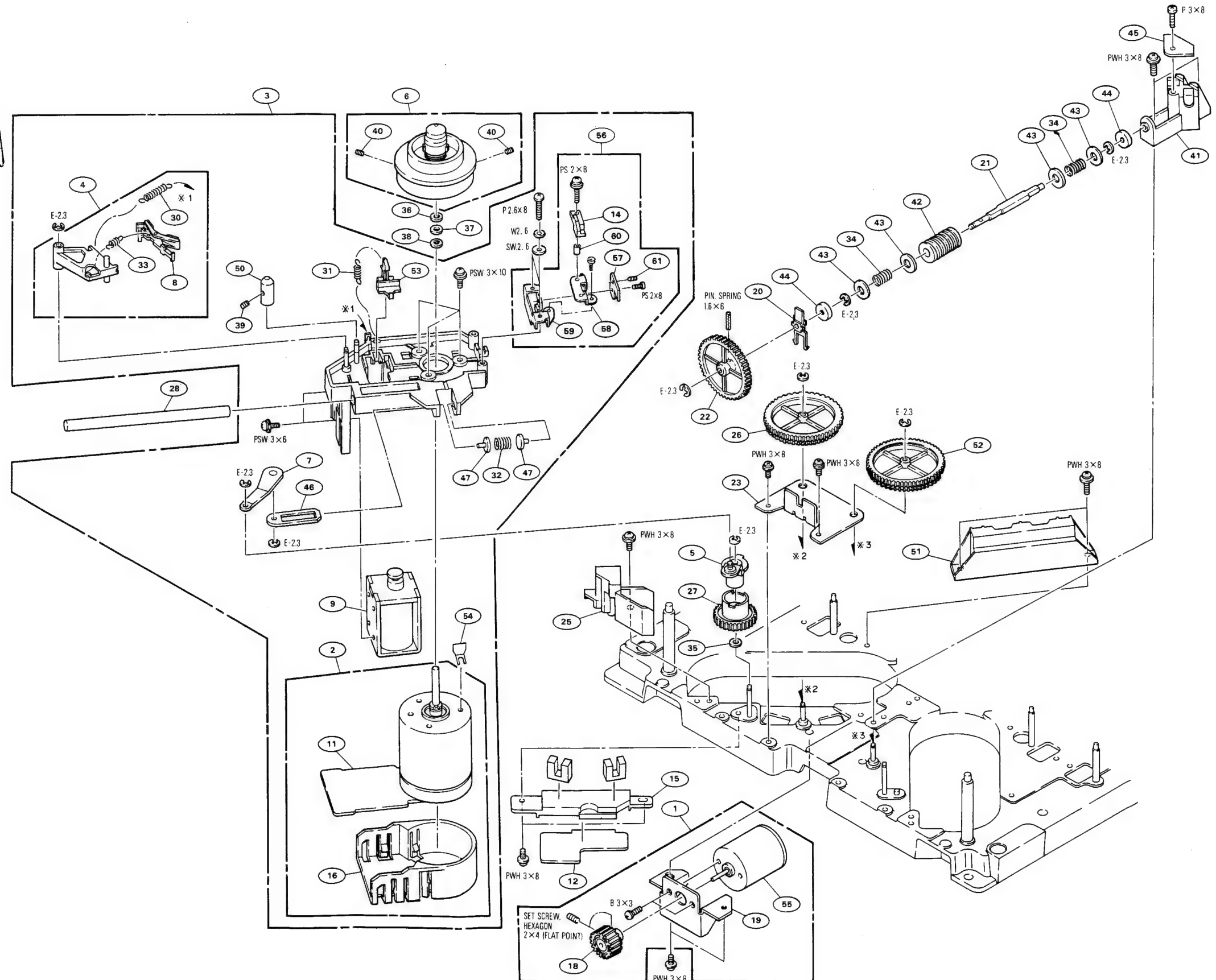
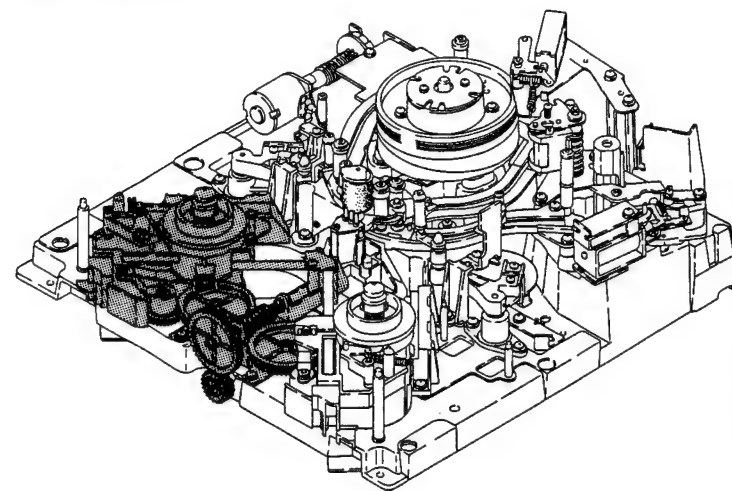


REEL CHASSIS (1)

REEL CHASSIS (1)

Serial No. 15836 and higher (EK)
Serial No. 10011 and higher (UC)

Reel chassis (1)



Serial No. 10001 through 15835 (EK)
Serial No. 10001 through 10010 (UC)

No.	Part No.	SP Description	No.	Part No.	SP Description
1	A-6737-206-D	o MOTOR ASSY, LS	53	3-717-450-01	o ARM, BRAKE RELEASE
2	A-6737-207-A	s RM ASSY	54	3-717-625-01	s SPACER
3	A-6739-097-C	s TABLE (S) BLOCK ASSY, RS	55	8-835-179-01	s MOTOR, DC MCB2B15
4	A-6741-066-A	o BRAKE ASSY			
5	X-3166-024-1	o ARM (A) ASSY, CRANK			
6	X-3166-025-2	s TABLE ASSY, REEL			
7	X-3166-060-1	o ARM (B) ASSY, CRANK			
8	X-3717-205-1	s LINING ASSY			
9	1-454-417-41	s SOLENOID "S-BRAKE"			
10	1-622-606-11	o PRINTED CIRCUIT BOARD, DE-15			
11	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82			
12	1-640-168-12	o PRINTED CIRCUIT BOARD, PTC-42			
14	1-807-683-11	s DME			
15	3-171-308-01	o BRACKET, LS SENSOR			
16	3-171-309-01	o COVER, RM			
18	3-171-316-01	s GEAR, M			
19	3-171-317-02	o BRACKET, M			
20	3-171-318-01	o BEARING, WORM			
21	3-171-319-01	o SHAFT, WORM			
22	3-171-320-01	o GEAR, DRIVE			
23	3-171-321-01	o BRACKET, GEAR			
25	3-171-397-02	o HOLDER (S), SHAFT			
26	3-171-429-01	o GEAR, LS			
27	3-171-430-01	o GEAR, CRANK			
28	3-171-431-01	s SHAFT, SLIDE			
30	3-307-381-00	s SPRING, TENSION			
31	3-535-532-01	s SPRING, TENSION			
32	3-491-247-00	s SPRING, COMPRESSION			
33	3-648-217-00	o SPRING, TENSION			
34	3-659-324-00	s SPRING, COMPRESSION			
35	3-701-439-21	s WASHER, POLY 3MM DIA., 0.5T			
36	3-701-441-01	s WASHER, POLY 4MM DIA., 0.13T			
37	3-701-441-11	s WASHER, POLY 4MM DIA., 0.25T			
38	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T			
39	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4			
40	3-701-507-00	s SET SCREW, DOUBLE POINT, (M3X5)			
41	3-717-208-01	o HOLDER (A), SHAFT			
42	3-717-210-01	s WORM			
43	3-717-212-01	o WASHER (B), WORM			
44	3-717-213-01	o WASHER (A), WORM			
45	3-717-224-01	s RETAINER, SHAFT, SLIDE			
46	3-717-230-01	o BRACKET, LIMITER			
47	3-717-231-01	o HOLDER, LIMITER			
48	3-717-232-01	o SHAFT, FITTING, MR SENSOR			
49	3-717-233-01	o BRACKET, DE-15			
50	3-717-266-01	o CAP (S), CG SHAFT			
51	3-717-398-01	o TABLE, SLIDE			
52	3-717-399-01	s WHEEL, W			

REEL CHASSIS (2)

Serial No. 15836 and higher (EK)
Serial No. 10011 and higher (UC)

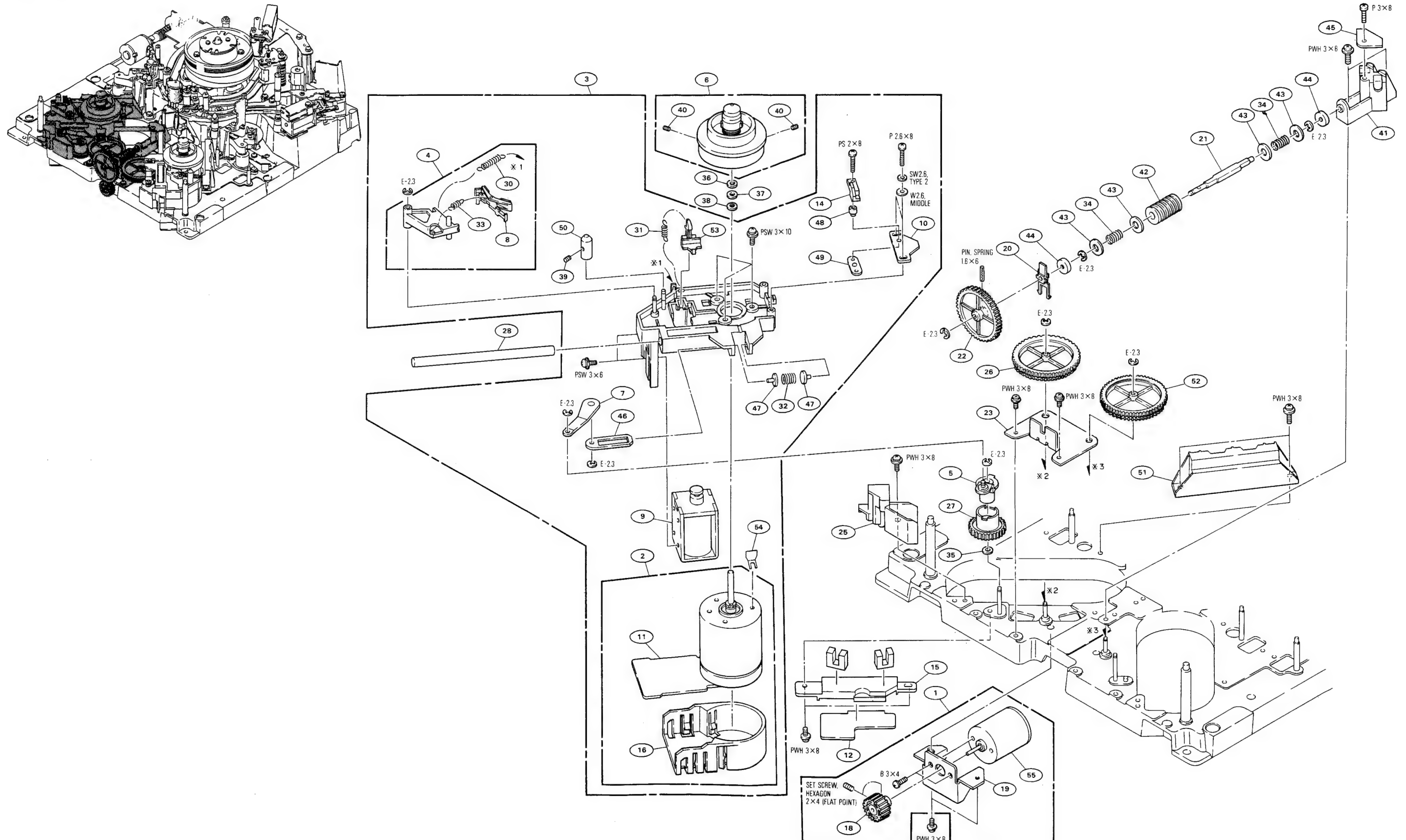
No.	Part No.	SP Description
101	A-6737-207-A	s RM ASSY
102	A-6739-098-D	s TABLE (T) BLOCK ASSY, RS
103	A-6741-066-A	o BRAKE ASSY
104	X-3166-024-1	o ARM (A) ASSY, CRANK
105	X-3166-025-2	s TABLE ASSY, REEL
106	X-3166-060-1	o ARM (B) ASSY, CRANK
107	X-3717-205-1	s LINING ASSY
108	1-454-417-41	s SOLENOID "T-BRAKE"
110	1-640-165-11	o PRINTED CIRCUIT BOARD, PTC-55
111	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82
113	1-807-683-11	s DME
114	3-171-309-01	o COVER, RM
116	3-171-313-01	o COVER, MC
117	3-171-314-01	s LEVER (B), SENSOR
118	3-171-328-02	o HOLDER, MC DETECTION
120	3-171-428-02	o HOLDER (T), SHAFT
121	3-171-430-01	o GEAR, CRANK
122	3-171-431-01	s SHAFT, SLIDE
124	3-307-381-00	s SPRING, TENSION
125	3-535-532-01	s SPRING, TENSION
126	3-491-247-00	s SPRING, COMPRESSION
127	3-554-202-00	o SPRING, COMPRESSION
128	3-648-217-00	o SPRING, TENSION
129	3-701-439-21	s WASHER, POLY 3MM DIA., 0.5T
130	3-701-441-01	s WASHER, POLY 4MM DIA., 0.13T
131	3-701-441-11	s WASHER, POLY 4MM DIA., 0.25T
132	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T
133	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
134	3-701-507-00	s SET SCREW, DOUBLE POINT, (M3X5)
135	3-717-230-01	o BRACKET, LIMITER
136	3-717-231-01	o HOLDER, LIMITER
139	3-717-266-01	o CAP (S), CG SHAFT
140	3-717-398-01	o TABLE SLIDE
141	3-717-450-01	o ARM, BRAKE RELEASE
142	3-717-625-01	s SPACER
143	A-8267-923-A	o SENSOR ASSY, FG
144	1-646-129-11	o PRINTED CIRCUIT BOARD, SE-186
145	3-183-376-01	o BRACKET, SE
146	3-183-377-01	o PLATE ADJUSTMENT, SE
147	3-307-259-01	o TUBE, GAP
148	3-689-039-11	s SCREW (M2X6), SMALL

Serial No. 15836 and higher (EK)
Serial No. 10011 and higher (UC)

No.	Part No.	SP Description	No.	Part No.	SP Description
1	A-6737-206-E	o MOTOR ASSY, LS	53	3-717-450-01	o ARM, BRAKE RELEASE
2	A-6737-207-A	s RM ASSY	54	3-717-625-01	s SPACER
3	A-6739-097-D	s TABLE (S) BLOCK ASSY, RS	55	8-835-179-01	s MOTOR, DC MCB2B15
4	A-6741-066-A	o BRAKE ASSY			Serial No. 15836 through 16195 (EK)
5	X-3166-024-1	o ARM (A) ASSY, CRANK			Serial No. 10011 through 10015 (UC)
6	X-3166-025-2	s TABLE ASSY, REEL		1-698-152-11	s MOTOR, DC SVD-1449
7	X-3166-060-1	o ARM (B) ASSY, CRANK			Serial No. 16196 and higher (EK)
8	X-3717-205-1	s LINING ASSY			Serial No. 10016 and higher (UC)
9	1-454-417-41	s SOLENOID "S-BRAKE"	56	A-8267-923-A	o SENSOR ASSY, FG
11	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82	57	1-646-129-11	o PRINTED CIRCUIT BOARD, SE-186
12	1-640-168-12	o PRINTED CIRCUIT BOARD, PTC-42	58	3-183-376-01	o BRACKET, SE
14	1-807-683-11	s DME	59	3-183-377-01	o PLATE ADJUSTMENT, SE
15	3-171-308-01	o BRACKET, LS SENSOR	60	3-307-259-01	o TUBE, GAP
16	3-171-309-01	o COVER, RM	61	3-689-039-11	s SCREW (M2X6), SMALL
18	3-171-316-01	s GEAR, M			
19	3-171-317-02	o BRACKET, M			
20	3-171-318-01	o BEARING, WORM			
21	3-171-319-01	o SHAFT, WORM			
22	3-171-320-01	o GEAR, DRIVE			
23	3-171-321-01	o BRACKET, GEAR			
25	3-171-397-02	o HOLDER (S), SHAFT			
26	3-171-429-01	o GEAR, LS			
27	3-171-430-01	o GEAR, CRANK			
28	3-171-431-01	s SHAFT, SLIDE			
30	3-307-381-00	s SPRING, TENSION			
31	3-535-532-01	s SPRING, TENSION			
32	3-491-247-00	s SPRING, COMPRESSION			
33	3-648-217-00	o SPRING, TENSION			
34	3-659-324-00	s SPRING, COMPRESSION			
35	3-701-439-21	s WASHER, POLY 3MM DIA., 0.5T			
36	3-701-441-01	s WASHER, POLY 4MM DIA., 0.13T			
37	3-701-441-11	s WASHER, POLY 4MM DIA., 0.25T			
38	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T			
39	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4			
40	3-701-507-00	s SET SCREW, DOUBLE POINT, (M3X5)			
41	3-717-208-01	o HOLDER (A), SHAFT			
42	3-717-210-01	s WORM			
43	3-717-212-01	o WASHER (B), WORM			
44	3-717-213-01	o WASHER (A), WORM			
45	3-717-224-01	s RETAINER, SHAFT, SLIDE			
46	3-717-230-01	o BRACKET, LIMITER			
47	3-717-231-01	o HOLDER, LIMITER			
50	3-717-266-01	o CAP (S), CG SHAFT			
51	3-717-398-01	o TABLE, SLIDE			
52	3-717-399-01	s WHEEL, W			

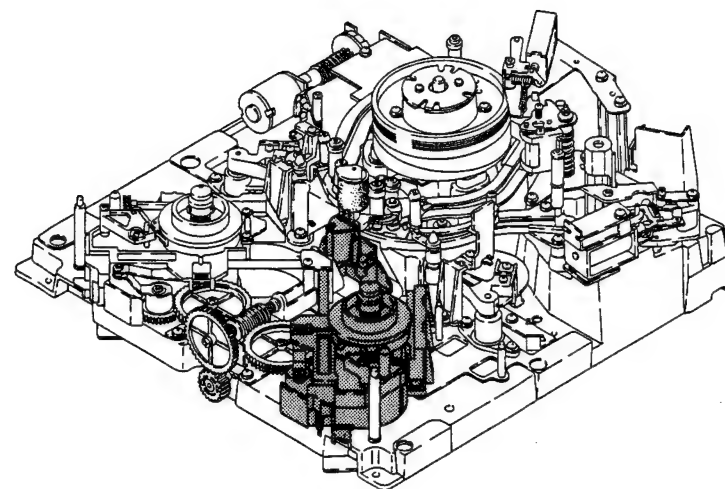
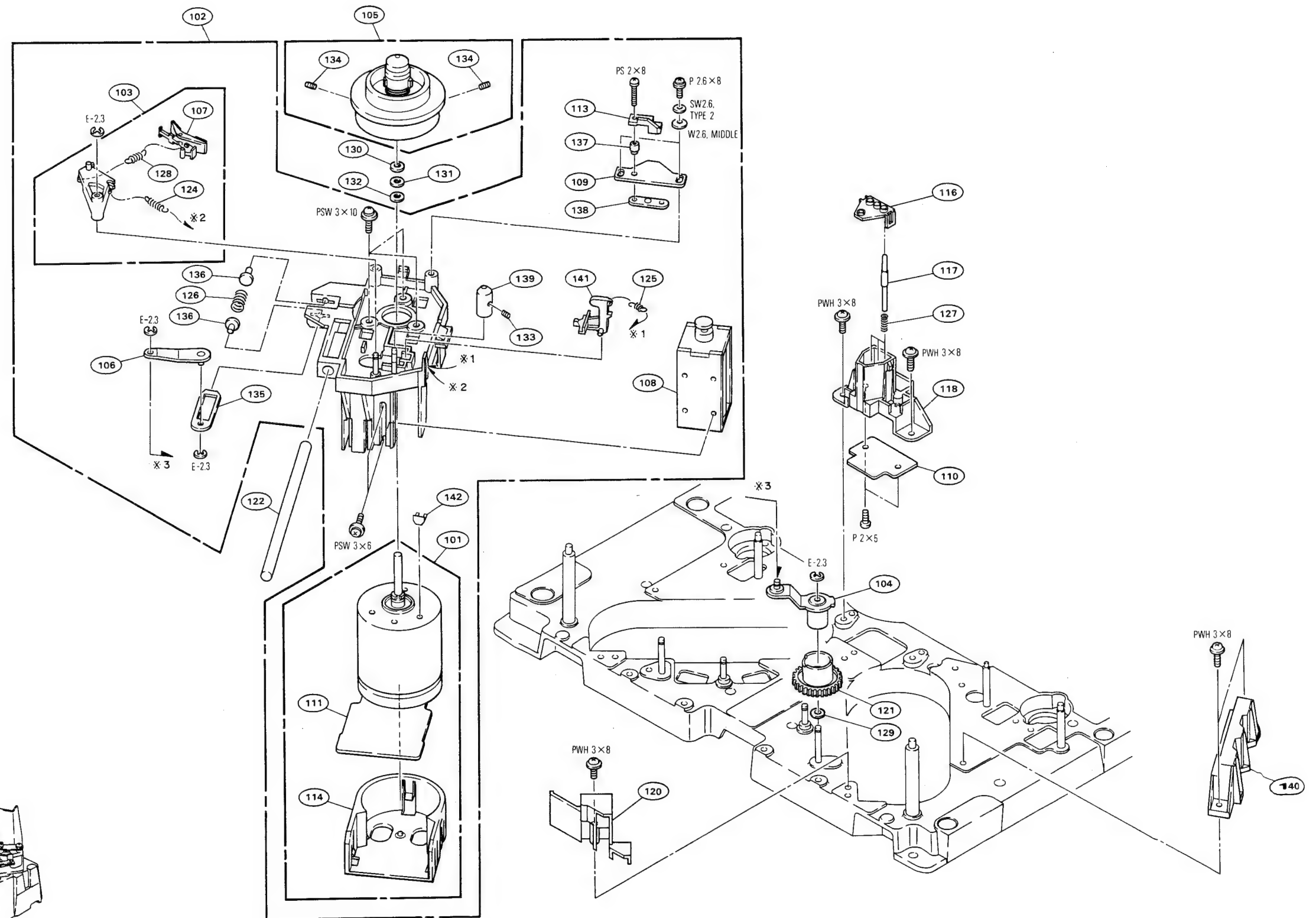
Serial No. 10001 through 15835 (EK)
Serial No. 10001 through 10010 (UC)

Reel chassis (1)

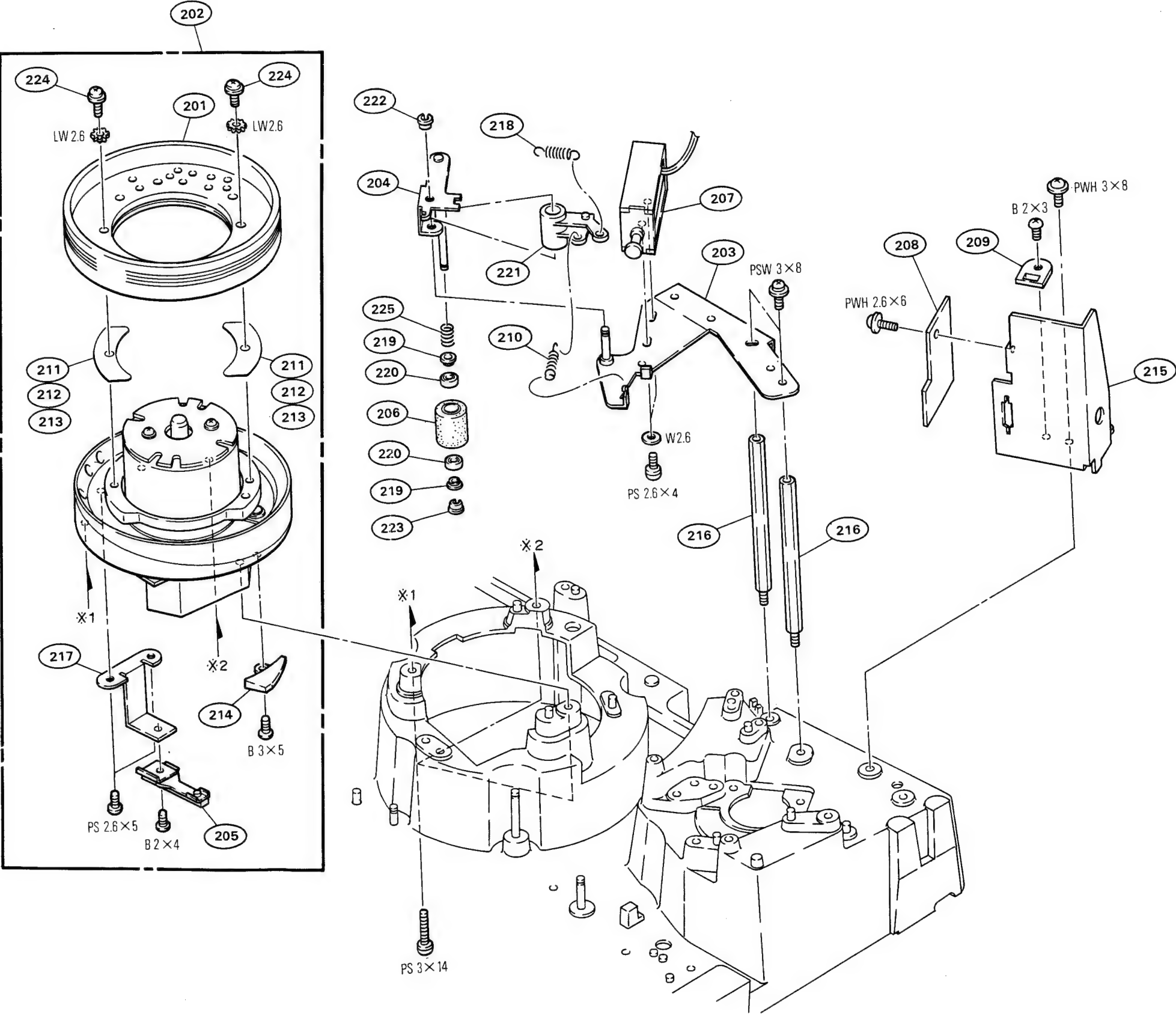
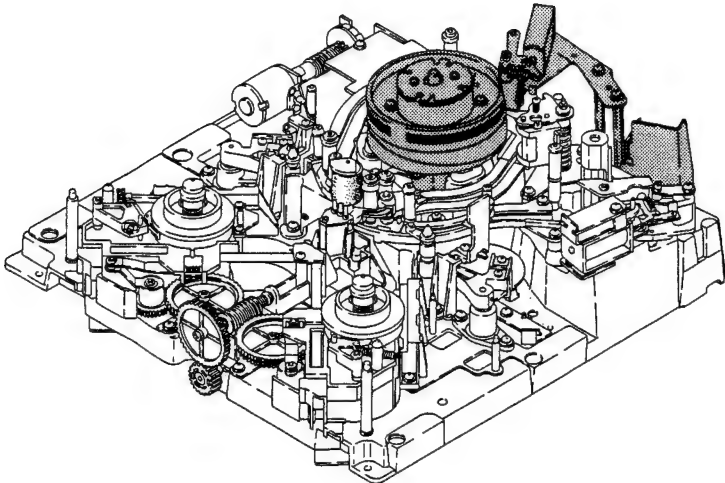


Serial No. 10001 through 15835 (EK)
Serial No. 10001 through 10010 (UC)

Reel chassis (2)

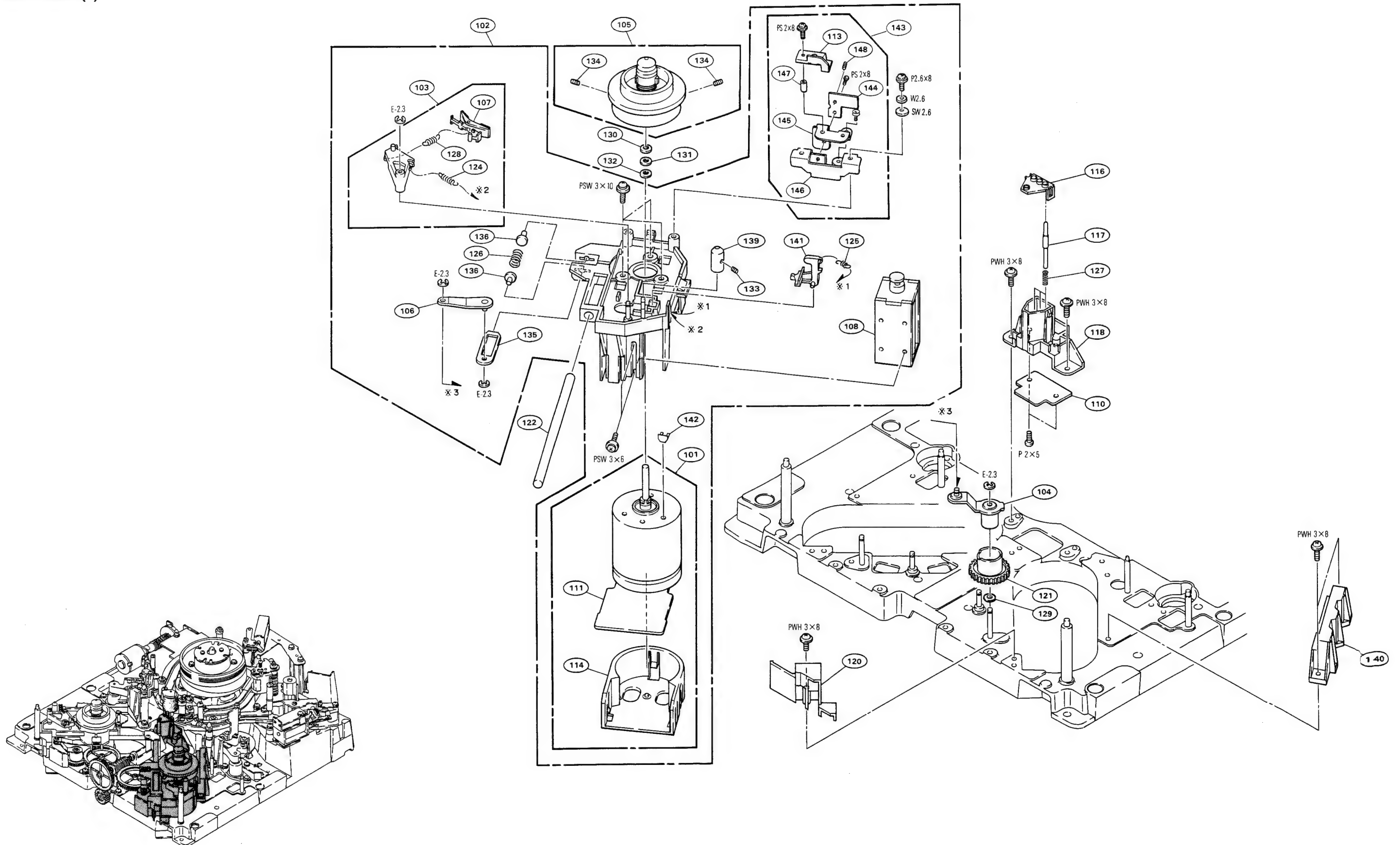


Drum and cleaning roller assembly



Serial No. 15836 and higher (EK)
Serial No. 10011 and higher (UC)

Reel chassis (2)



Serial No. 10001 through 15835 (EK)
Serial No. 10001 through 10010 (UC)

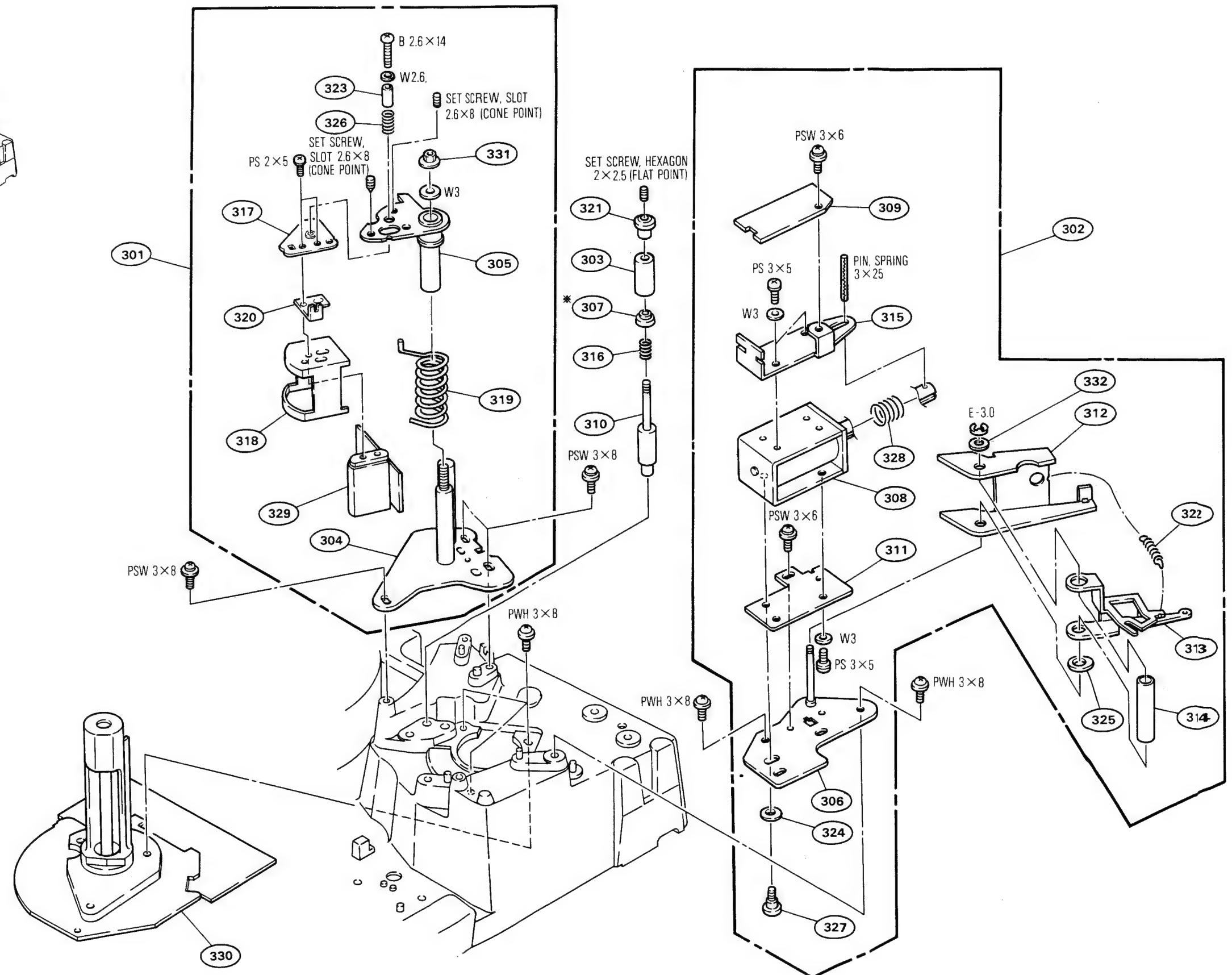
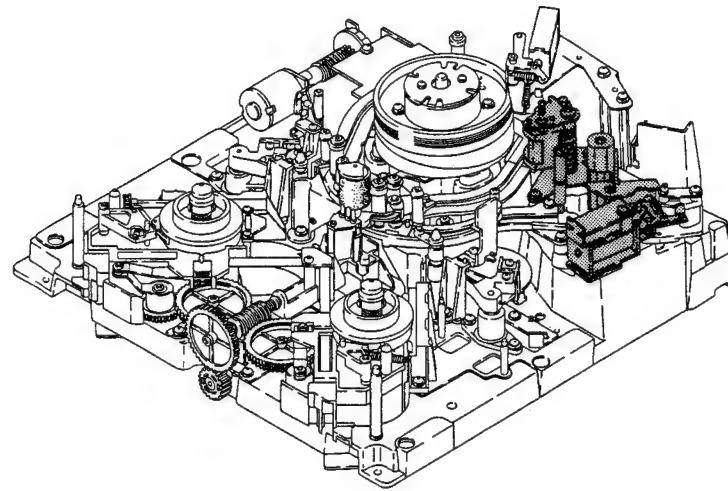
No.	Part No.	SP Description
101	A-6737-207-A	s RM ASSY
102	A-6739-098-C	s TABLE (T) BLOCK ASSY, RS
103	A-6741-066-A	o BRAKE ASSY
104	X-3166-024-1	o ARM (A) ASSY, CRANK
105	X-3166-025-2	s TABLE ASSY, REEL
106	X-3166-060-1	o ARM (B) ASSY, CRANK
107	X-3717-205-1	s LINING ASSY
108	1-454-417-41	s SOLENOID "T-BRAKE"
109	1-622-606-11	o PRINTED CIRCUIT BOARD, DE-15
110	1-640-165-11	o PRINTED CIRCUIT BOARD, PTC-55
111	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82
113	1-807-683-11	s DME
114	3-171-309-01	o COVER, RM
116	3-171-313-01	o COVER, MC
117	3-171-314-01	s LEVER (B), SENSOR
118	3-171-328-02	o HOLDER, MC DETECTION
120	3-171-428-02	o HOLDER (T), SHAFT
121	3-171-430-01	o GEAR, CRANK
122	3-171-431-01	s SHAFT, SLIDE
124	3-307-381-00	s SPRING, TENSION
125	3-535-532-01	s SPRING, TENSION
126	3-491-247-00	s SPRING, COMPRESSION
127	3-554-202-00	o SPRING, COMPRESSION
128	3-648-217-00	o SPRING, TENSION
129	3-701-439-21	s WASHER, POLY 3MM DIA., 0.5T
130	3-701-441-01	s WASHER, POLY 4MM DIA., 0.13T
131	3-701-441-11	s WASHER, POLY 4MM DIA., 0.25T
132	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T
133	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
134	3-701-507-00	s SET SCREW, DOUBLE POINT, (M3X5)
135	3-717-230-01	o BRACKET, LIMITER
136	3-717-231-01	o HOLDER, LIMITER
137	3-717-232-01	o SHAFT, FITTING, MR SENSOR
138	3-717-233-01	o BRACKET, DE-15
139	3-717-266-01	o CAP (S), CG SHAFT
140	3-717-398-01	o TABLE SLIDE
141	3-717-450-01	o ARM, BRAKE RELEASE
142	3-717-625-01	s SPACER

No.	Part No.	SP Description
201	A-6762-463-A	s UPPER DRUM ASSY, DBR-28-R
202	A-6050-841-A	s HEAD DRUM ASSY, DBH-28A-R
203	X-3166-324-1	o C (BASE) ASSY
204	X-3166-325-1	o ARM ASSY, C MAIN
205	X-3166-376-1	s GROUND ASSY, SHAFT
206	X-3675-858-1	s ROLLER SUB ASSY, C
207	1-454-372-11	s SOLENOID "CLEANING ROLLER"
208	1-640-167-11	o PRINTED CIRCUIT BOARD, DS-31
209	1-806-682-71	s SENSOR, DEW CONDENSATION
210	3-140-263-XX	s SPRING, TENSION (23T)
211	3-171-234-01	s SPACER, FLANGE
212	3-171-234-11	s SPACER, FLANGE
213	3-171-234-21	s SPACER, FLANGE
214	3-171-326-01	o BRACKET (B), TAPE
215	3-172-933-01	o BRACKET, DEW SENSOR
216	3-173-187-01	o SUPPORT
217	3-173-532-01	o BRACKET, GROUND
218	3-542-475-00	s SPRING, TENSION
219	3-655-966-00	s SPACER, STEP
220	3-669-443-01	s BEARING, BALL (NO FLANGE)
221	3-680-839-01	o LEVER (2), C
222	3-703-074-01	s CAP 3, SHAFT
223	3-703-075-00	s CAP 2, SHAFT
224	3-729-125-01	s SCREW (M2.6X8)
225	4-879-762-02	s SPRING, COMPRESSION

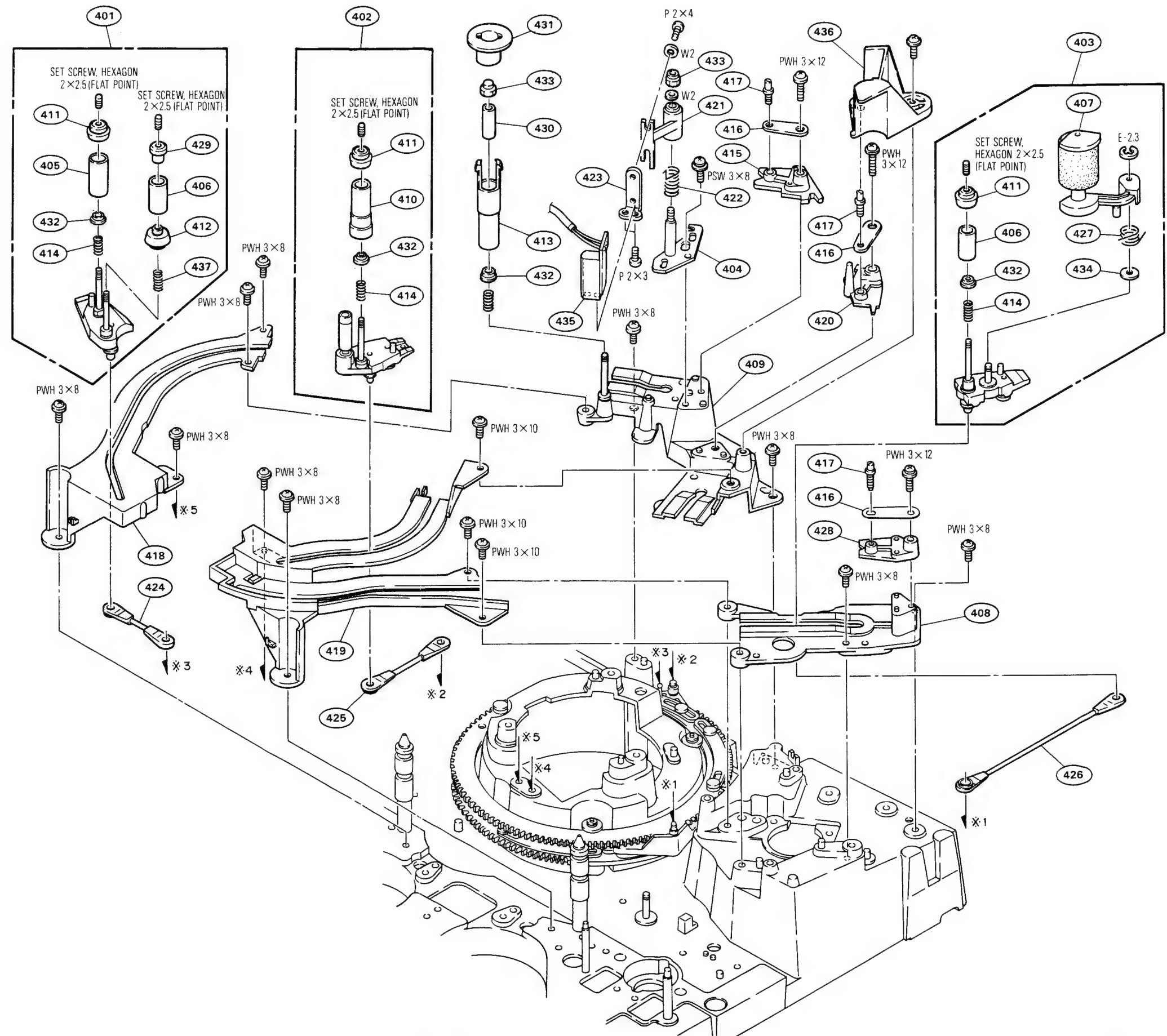
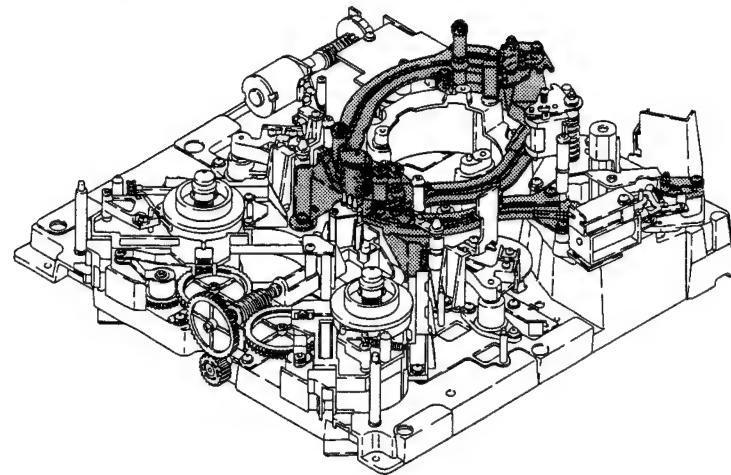
HEAD & PINCH PRESS ASSEMBLY

No.	Part No.	SP Description
301	A-6736-098-C	o HEAD (P) ASSY, AT
302	A-6749-125-A	o PRESS ASSY, PINCH
303	X-3166-431-1	s ROLLER (TG-6) ASSY, TAPE
304	X-3166-044-2	s DECK (P) ASSY, AT
305	X-3166-050-1	o PLATE ASSY, ADJUSTMENT, RP
306	X-3166-061-2	o BASE ASSY, PINCH PRESS
※ 307	3-174-316-02	s FLANGE (LOWER) As to the models of the following serial Nos., when replacing this part, replace No. 316 SPRING, COMPRESSION with a new part (2-242-703-00) at the same time. Serial No. 10001 through 11150 (EK)
308	1-454-338-00	s SOLENOID "PINCH"
309	1-640-162-12	o PRINTED CIRCUIT BOARD, PD-56
310	3-171-307-01	o SHAFT, TG-6
311	3-171-331-01	o BASE, SOLENOID
312	3-171-332-01	o ARM, PINCH PRESS
313	3-171-333-01	o ARM, SUB PRESS
314	3-171-334-02	o COLLAR, PINCH SHAFT
315	3-171-335-01	o HOLDER, PC BOARD
316	3-171-344-01	s SPRING, COMPRESSION Serial No. 10001 through 11150 (EK)
	2-242-703-00	s SPRING, COMPRESSION Serial No. 11151 and higher (EK) Serial No. 10001 and higher (UC)
317	3-171-567-03	o BRACKET, RP
318	3-171-568-01	o CASE, SHIELD, AT
319	3-171-569-01	s SPRING (A)
320	3-171-570-01	o PLATE (R), ADJUSTMENT
321	3-173-176-01	s NUT, ADJUSTMENT
322	3-578-532-00	s SPRING, TENSION
323	3-642-719-01	o SPACER (2.6X11)
324	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T
325	3-701-444-21	s WASHER, POLY 6MM DIA., 0.50T
326	3-738-730-01	s SPRING, COMPRESSION
327	4-835-134-00	s SCREW, TD 3.8X2.5
328	4-860-709-02	s SPRING, COMPRESSION
329	8-825-776-22	s HEAD PS244-2103E "AUDIO/TC"
330	8-835-445-01	s MOTOR, DC SCV-0301A "CAPSTAN"
331	4-334-513-00	s NUT, NYLON Serial No. 12851 and higher (EK) Serial No. 10001 and higher (UC)
332	3-701-441-11	s WASHER, POLY 4MM DIA, 0.25T Serial No. 12951 and higher (EK) Serial No. 10001 and higher (UC)

Head and pinch press assembly



Rail and slider assembly

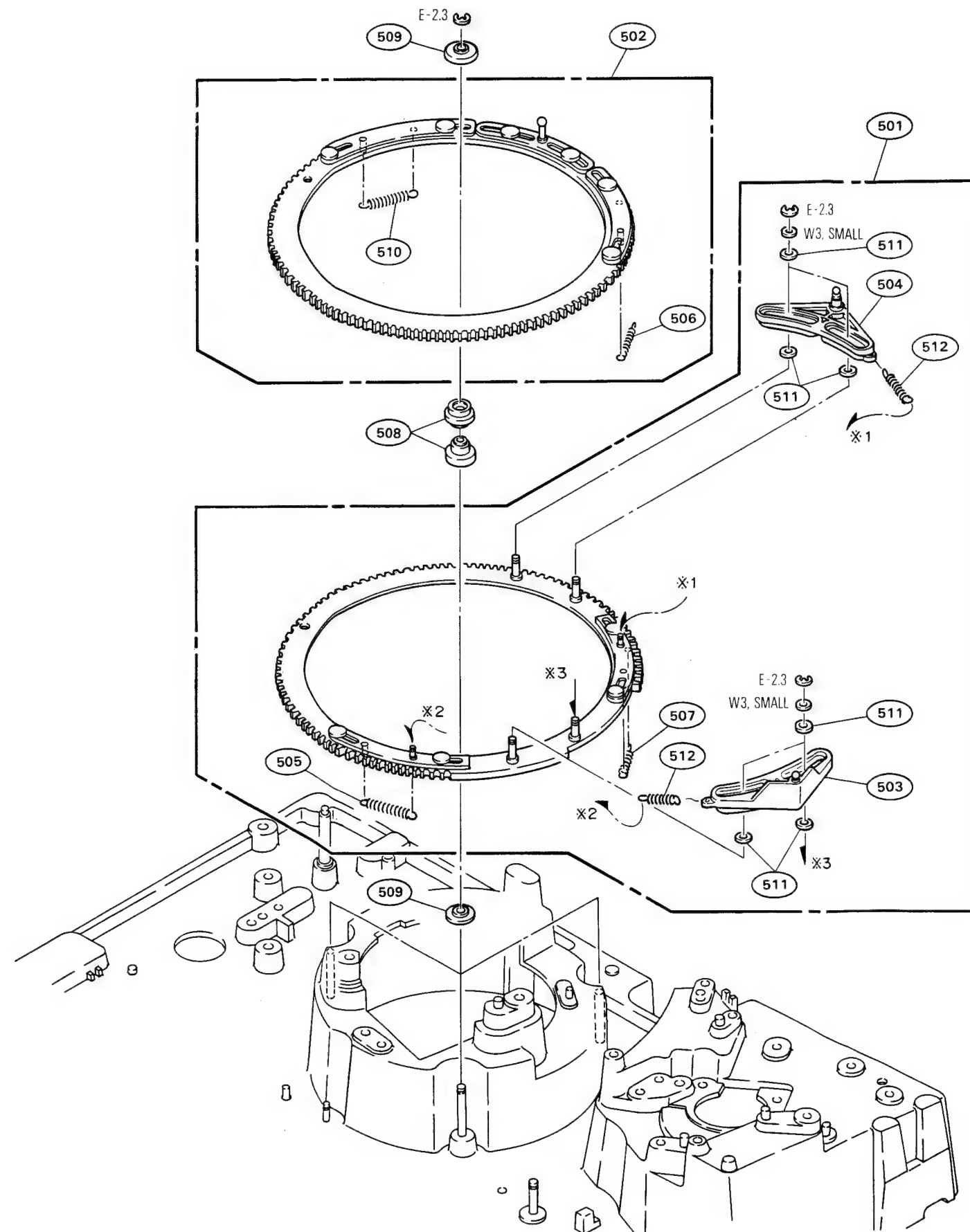
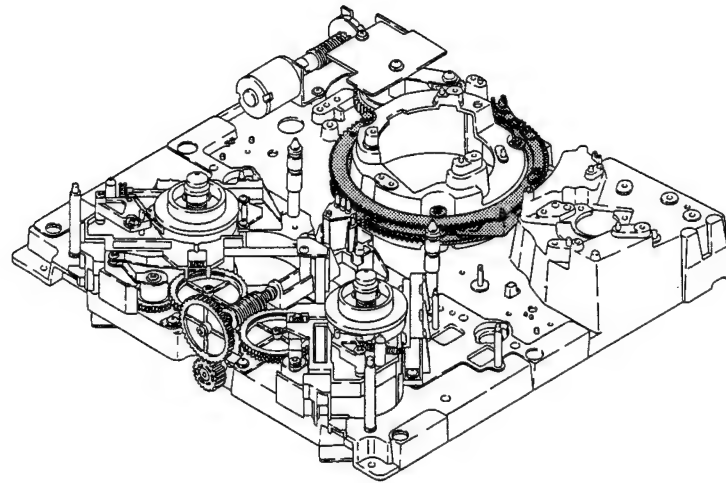


No.	Part No.	SP Description
401	A-6750-291-D s	SLIDER ASSY, S Serial No. 10001 through 12490 (EK)
	A-8262-601-A s	SLIDER ASSY, S Serial No. 12851 and higher (EK) Serial No. 10001 and higher (UC)
402	A-6750-292-D s	SLIDER ASSY, T
403	A-6750-293-E s	SLIDER ASSY, P
404	X-3166-027-1 o	BASE ASSY, CTL
405	X-3166-573-1 s	TG-3 ASSY
406	3-176-903-01 s	TAPE GIUDE
407	X-3166-040-4 s	ARM ASSY, PINCH
408	X-3166-042-2 o	BASE SUB ASSY, P
409	X-3166-072-6 s	BASE SUB ASSY, ST
410	X-3166-320-1 s	TG-5 ASSY
411	3-174-315-01 s	FLANGE (UPPER)
412	3-176-902-01 s	FLANGE (LOWER)
413	X-3166-386-1 s	TG-4 (IP) ASSY
414	3-171-344-01 s	SPRING, COMPRESSION
415	3-171-345-01 s	PLATE, ADJUSTMENT, S
416	3-171-346-01 o	SPRING, ADJUSTMENT
417	3-171-347-01 o	SCREW, ADJUSTMENT
418	3-171-348-02 s	RAIL, S
419	3-171-349-05 o	RAIL, T
420	3-171-378-02 s	PLATE, ADJUSTMENT, T
421	3-171-381-02 o	ARM, CTL
422	3-171-382-01 s	SPRING, CTL
423	3-171-383-02 o	PLATE, SIDE, CTL
424	3-171-432-02 s	ROD, S
425	3-171-433-02 s	ROD, T
426	3-171-434-02 s	ROD, P
427	3-171-498-01 s	SPRING, PINCH ARM RETURN
428	3-171-515-01 s	PLATE, ADJUSTMENT, P
429	3-173-176-01 s	NUT, ADJUSTMENT
430	3-173-648-01 o	RETAINER, BEARING
431	3-174-897-01 s	WHEEL, FLY (P)
432	3-655-966-00 s	SPACER, STEP
433	3-698-829-01 s	NUT (M2)
434	3-701-439-01 s	WASHER, POLY 3MM DIA., 0.13T
435	8-825-776-41 s	HEAD PS244-21C "CTL"
436	3-174-911-01 o	COVER, AU HEAD
437	3-513-234-00 s	SPRING, COMPRESSION

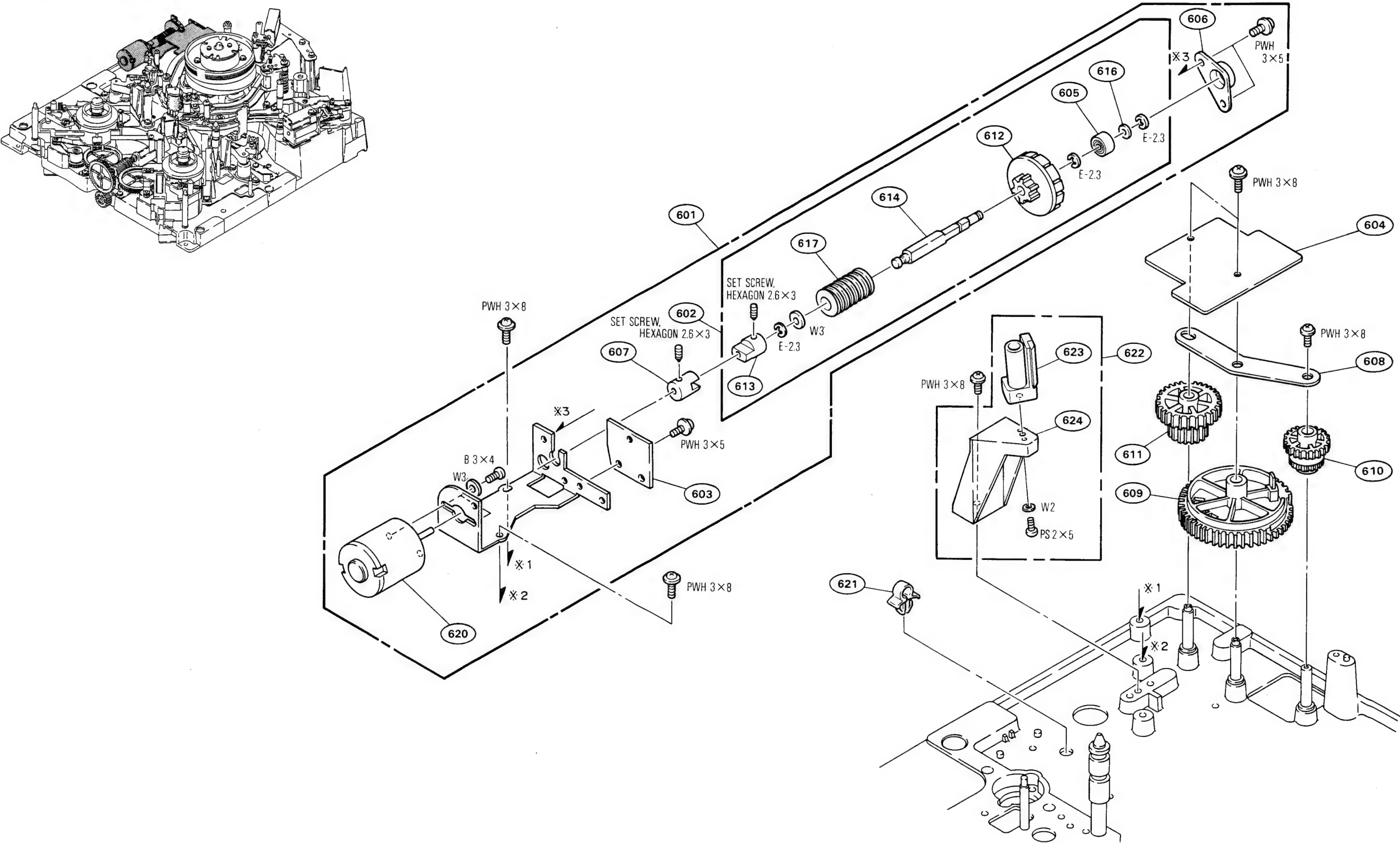
THREADING RING

No.	Part No.	SP Description
501	A-6750-289-C	o RING ASSY, T
502	A-6750-290-B	o RING ASSY, S
503	X-3166-028-2	o SLIDER ASSY, P
504	X-3166-029-2	o SLIDER ASSY, T
505	3-171-384-01	o SPRING, TENSION
506	3-171-385-01	o SPRING, TENSION
507	3-171-386-01	o SPRING, TENSION
508	3-171-435-03	o ROLLER (A), RING
509	3-171-436-02	o ROLLER (B), RING
510	3-171-468-01	o SPRING, TENSION
511	3-701-439-11	s WASHER, POLY 3MM DIA., 0.25T
512	3-171-385-01	o SPRING, TENSION Serial No. 10001 through 12490 (EK)
	3-171-386-01	o SPRING, TENSION Serial No. 12851 and higher (EK) Serial No. 10001 and higher (UC)

Threading ring



Threading gear box assembly



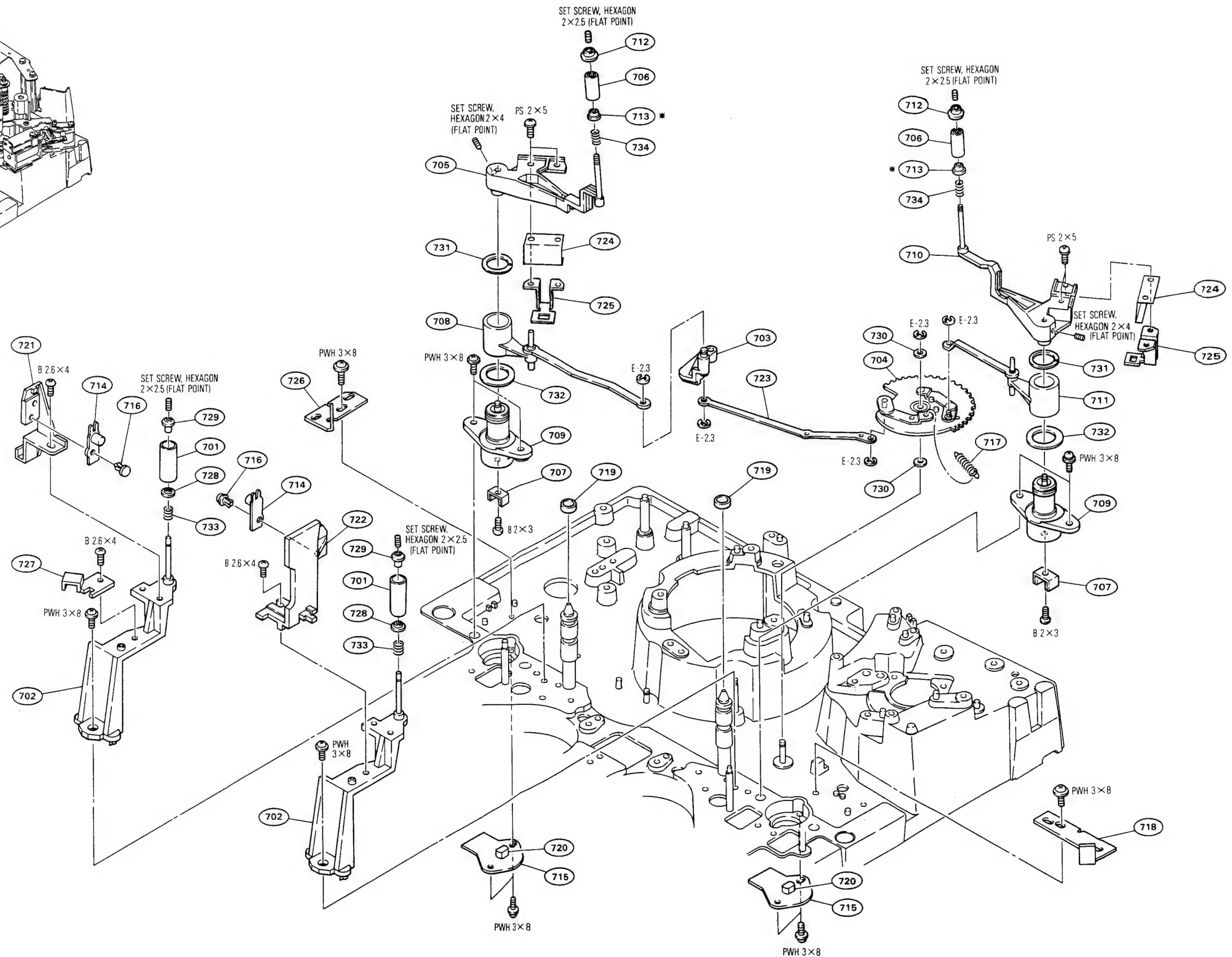
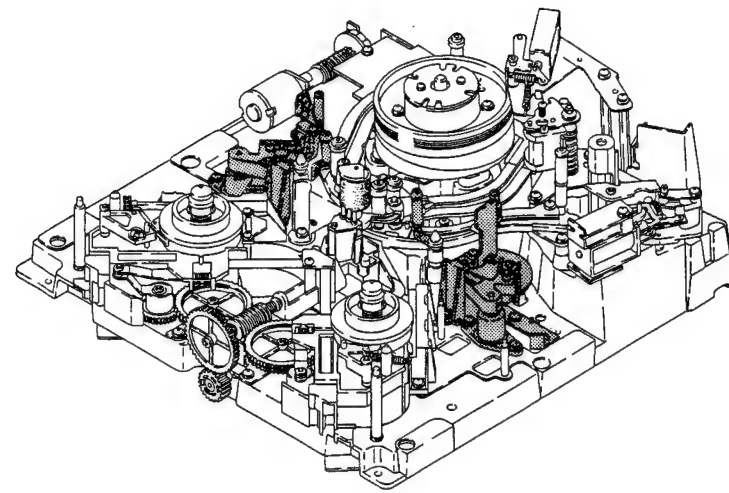
No.	Part No.	SP Description
601	A-6750-294-C	s MOTOR ASSY, LOADING
602	A-6750-295-B	o WORM ASSY
603	1-640-163-11	o PRINTED CIRCUIT BOARD, PTC-54
604	1-640-164-11	o PRINTED CIRCUIT BOARD, PTC-49
605	2-621-007-01	s BEARING, BALL, (B) (NO FRANGE)
606	3-171-336-01	o HOLDER, BEARING
607	3-171-337-01	o JOINT (1)
608	3-171-352-01	o REINFORCEMENT
609	3-171-353-02	o GEAR, MAIN
610	3-171-354-02	o GEAR, S
611	3-171-355-01	o WHEEL, WORM
612	3-171-389-01	o RING, FG
613	3-171-390-01	o JOINT (2)
614	3-171-391-01	o SHAFT, WORM
616	3-701-439-21	s WASHER, POLY 3MM DIA., 0.50T
617	3-717-210-01	s WORM
620	8-835-179-01	s MOTOR, DC MCB2B15 Serial No. 10001 through 16195 (EK) Serial No. 10001 through 10015 (UC)
	1-698-152-11	s MOTOR, DC SVD-1449 Serial No. 16196 and higher (EK) Serial No. 10016 and higher (UC)
621	4-321-237-00	s CLIP, CABLE
622	A-8310-268-A	s BLADE ASSY Serial No. 16396 and higher (EK) Serial No. 10016 and higher (UC)
623	X-3167-212-2	s CLEANING BLADE ASSY Serial No. 16396 and higher (EK) Serial No. 10016 and higher (UC)
624	3-171-571-01	o BASE, FE Serial No. 16396 and higher (EK) Serial No. 10016 and higher (UC)

ENSION REGULATOR ASSEMBLY

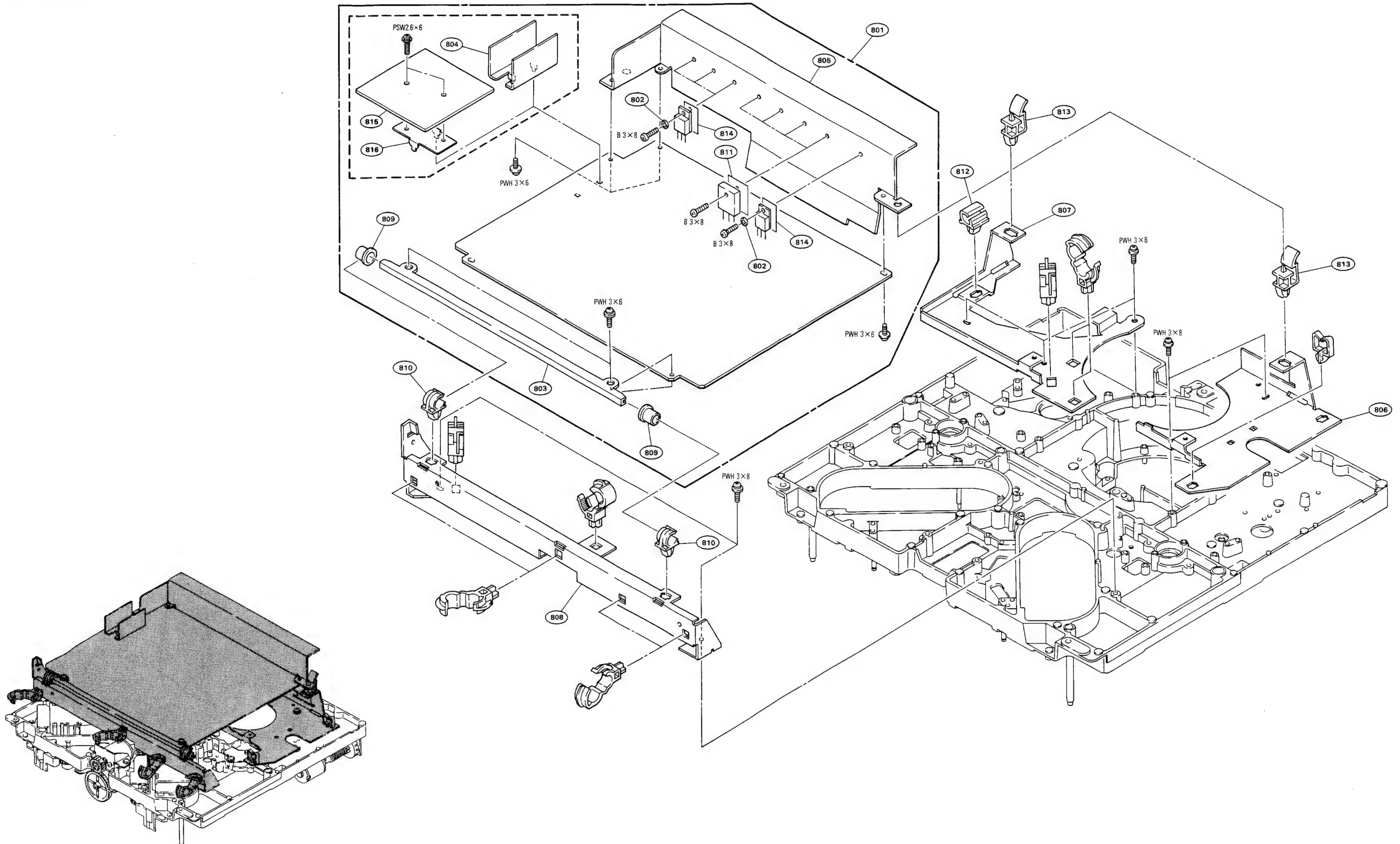
No.	Part No.	SP Description
701	X-3166-037-2	s ROLLER (M) ASSY, TAPE
702	X-3166-043-2	o ARM ASSY, CASSETTE EXIT
703	X-3166-047-1	o ARM ASSY, SUB DRIVING
704	X-3166-048-3	o GEAR SUB ASSY, DRIVING
705	X-3166-051-4	s ARM ASSY, S TENSION REGULATOR
706	X-3166-052-2	s ROLLER (S-T) ASSY, TAPE
707	X-3166-053-2	o YOKE ASSY, MAGNET
708	X-3166-054-1	o ARM ASSY, DRIVING
709	X-3166-055-2	s SUPPORT ASSY, TENSION REGULATOR
710	X-3166-057-2	s ARM ASSY, T TENSION REGULATOR
711	X-3166-059-1	o ARM ASSY, DRIVING
712	3-174-315-01	s FLANGE (UPPER)
※ 713	3-174-316-02	s FLANGE (LOWER)
		As to the models of the following serial Nos., when this part, replace No. 734 SPRING, COMPRESSION with a new part (2-618-901-00) at the same time. Serial No. 10001 through 11150 (EK)
714	1-543-316-31	s HEAD, SENSING
715	1-640-161-11	o PRINTED CIRCUIT BOARD, TR-73
716	2-279-715-01	s RIVET, NYLON
717	3-531-860-00	s SPRING, TENSION
718	3-171-350-01	o STOPPER, T
719	3-171-351-01	o STOPPER, TENSION REGULATOR
720	3-171-392-01	s HOLDER, DME
721	3-171-516-01	o HOLDER, S SENSOR
722	3-171-519-02	s HOLDER, T SENSOR
723	3-171-520-01	o DISK (A), S TENSION REGULATOR
724	3-171-579-02	o SPRING, LEAF, TENSION REGULATOR
725	3-176-613-02	o PROTECTOR
726	3-171-592-01	o STOPPER, S
727	3-172-763-01	o HOLDER, SENSOR HARNESS
728	3-173-172-01	s FLANGE, LOWER
729	3-173-176-01	s NUT, ADJUSTMENT
730	3-701-439-21	s WASHER, POLY, 3MM DIA., 0.5T
731	3-701-447-21	s WASHER
732	3-701-448-21	s WASHER, POLYETHYLENE
733	4-879-563-00	s SPRING, COMPRESSION
734	4-879-762-00	s SPRING, COMPRESSION
		Serial No. 10001 through 11150 (EK)
	2-618-901-00	s SPRING
		Serial No. 11151 and higher (EK)
		Serial No. 10001 and higher (UC)

Tension regulator assembly

※As to the model of its serial No. is among 10001 through 11150(EK), when replacing No.713, replace No.734 with a new part (2-618-901-00) at the same time.



Reel chassis (3)

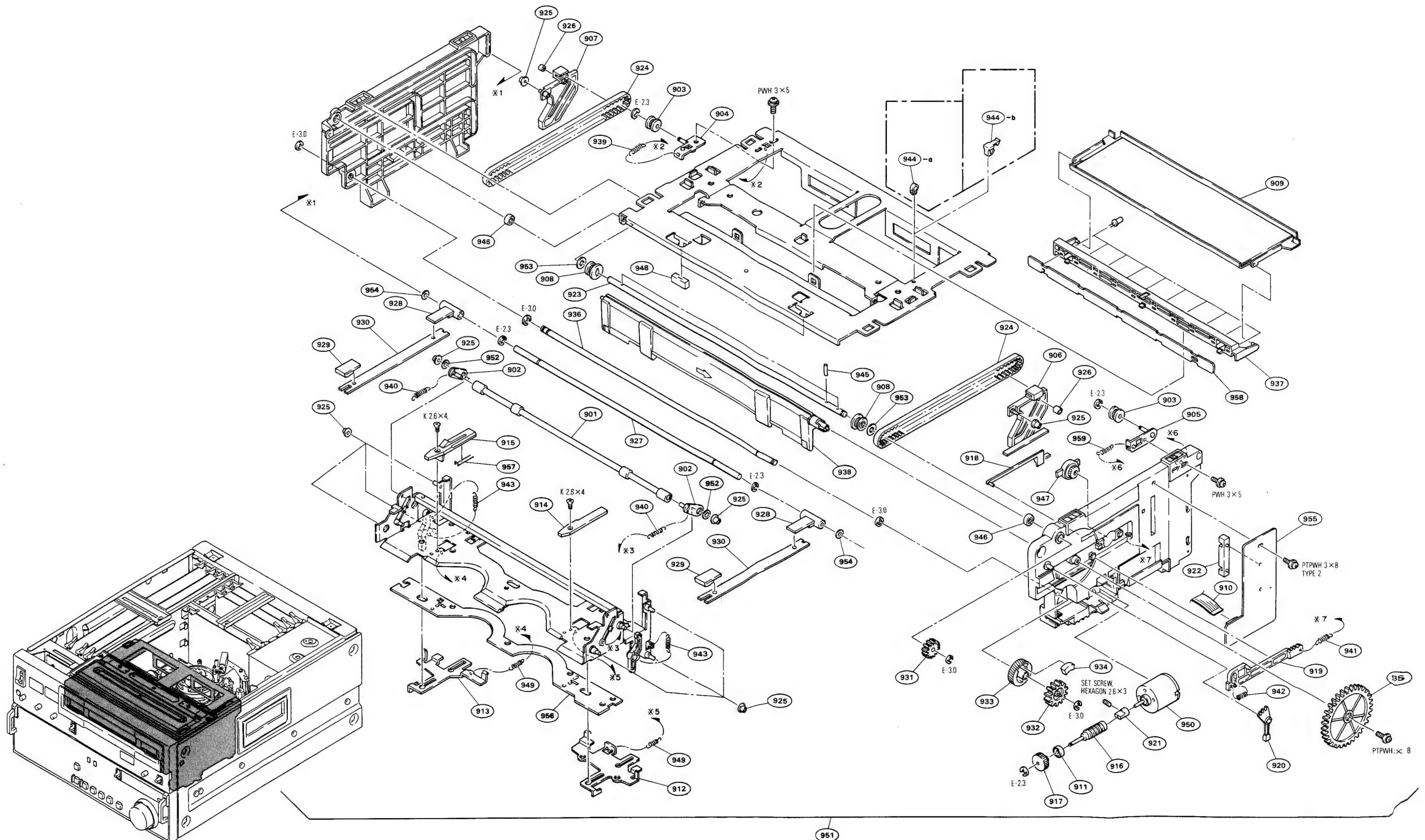


No.	Part No.	SP Description
801	A-6717-623-B	o MOUNTED CIRCUIT BOARD, DR-118A Serial No. 10001 through 14045 (EK) Serial No. 10001 through 10010 (UC)
	A-8271-718-A	o MOUNTED CIRCUIT BOARD, DR-232 (A) Serial No. 14046 and higher (EK) Serial No. 10011 and higher (UC)
802	2-371-561-01	s BUSHING (P), INSULATING
803	3-171-393-01	o SUPPORT, DR
804	3-171-395-01	o HEAT SINK (B) Serial No. 10001 through 12490 (EK)
805	3-171-493-01	o HEAT SINK (A)
806	3-171-494-02	o PLATE, FIXED, DD
807	3-171-505-02	o PLATE, FIXED, DT
808	3-171-506-02	o PLATE, FIXED, DR
809	3-646-084-00	o CAP, REINFORCEMENT
810	3-646-086-01	o HOLDER, ROD
811	3-660-978-00	s SHEET, HEAT RESISTING
812	3-703-072-00	o HOLDER, PCB
813	3-703-141-00	o HOLDER, PCB
814	4-911-232-01	s SHEET, INSULATING
815	3-176-491-01	o HEAT SINK (2), DR Serial No. 12851 and higher (EK) Serial No. 10001 and higher (UC)
816	3-176-490-01	o HEAT SINK (1), DR Serial No. 12851 and higher (EK) Serial No. 10001 and higher (UC)

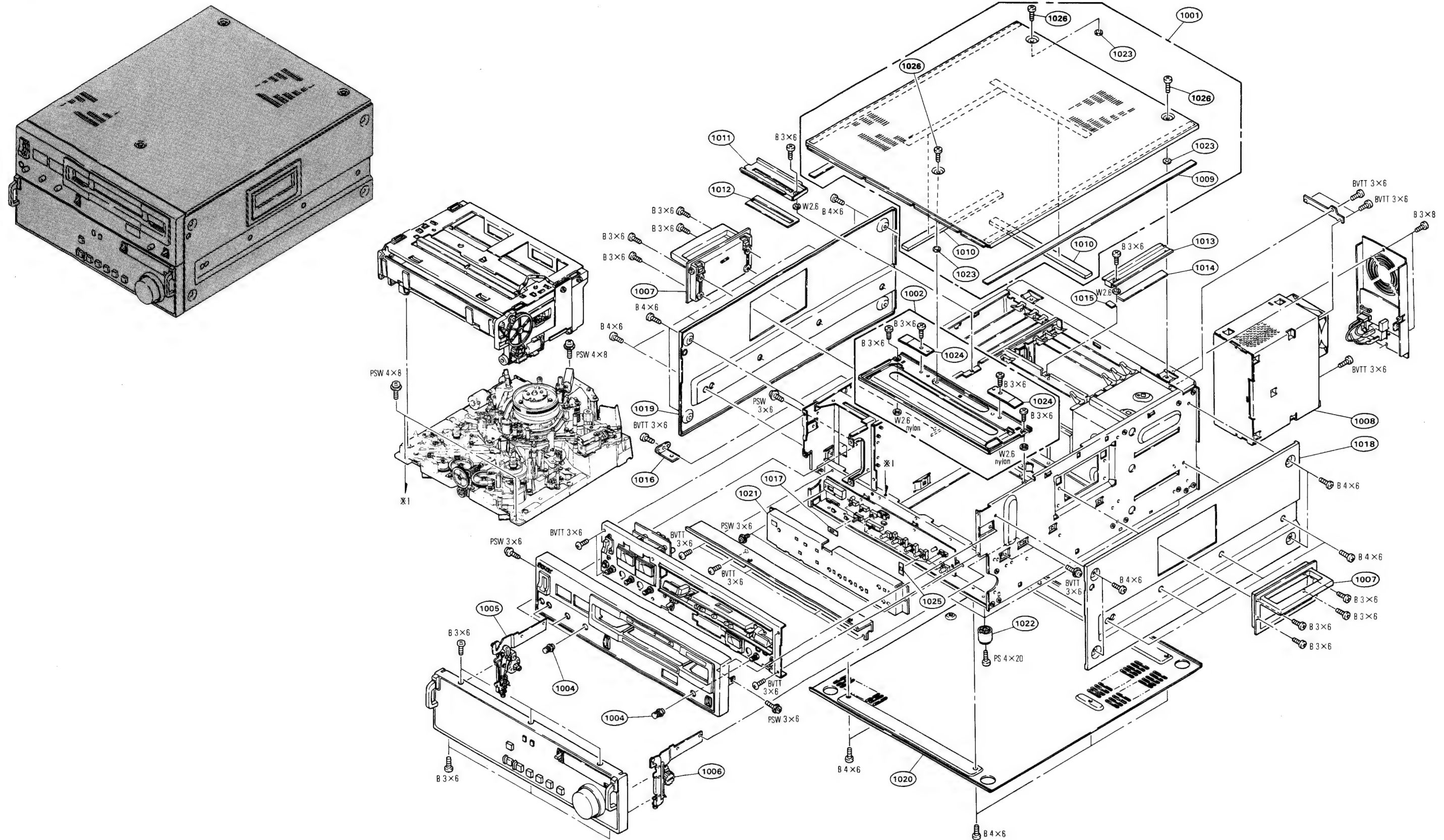
ASSETTE COMPARTMENT ASSEMBLY

No.	Part No.	SP Description	No.	Part No.	SP Description
901	X-3166-062-1	o SHAFT ASSY, PRESS ROLLER	939	3-554-122-00	o SPRING, TENSION Serial No. 10001 through 12950 (EK)
902	X-3166-063-2	o ARM ASSY, PRESS	3-176-578-01	s SPRING, TENSION Serial No. 12951 and higher (EK)	
903	3-176-584-01	o PULLEY (B)		Serial No. 10001 and higher (UC)	
904	X-3166-065-1	o DECK (L) ASSY, PULLEY	940	3-548-757-00	s SPRING, TENSION
905	X-3166-066-1	o DECK (R) ASSY, PULLEY	941	3-672-461-00	s SPRING, TENSION
906	X-3166-067-1	o SLIDER (R) ASSY	942	3-579-759-00	s SPRING, COMPRESSION
907	X-3166-068-1	o SLIDER (L) ASSY	943	3-646-214-00	s SPRING
908	3-176-583-01	o PULLEY (A)	944-a	3-660-815-00	o CLIP, CABLE Serial No. 10001 through 10650 (EK)
909	X-3166-217-1	s MIRROR ASSY	944-b	3-671-150-01	o CLAMP Serial No. 10651 and higher (EK)
910	1-690-106-12	s WIRE, FLEXIBLE CARD 5P		Serial No. 10001 and higher (UC)	
911	2-621-007-01	s BEARING, BALL, (B) (NO FRANGE)	945	3-677-193-00	o PIN, STOPPER
912	3-171-367-04	o SWITCH (R), IN	946	3-698-217-01	s BEARING (NO FLANGE), BALL
913	3-171-398-03	o SWITCH (L), IN	947	3-712-786-01	s DAMPER, OIL
914	3-171-399-02	o GUIDE (R), CASSETTE	948	3-717-369-04	o STOPPER, DOOR
915	3-171-400-02	o GUIDE (L), CASSETTE	949	4-858-799-00	s SPRING, TENSION
916	3-171-418-02	s WORM	950	8-835-179-01	s MOTOR, DC MCB2B15 Serial No. 10001 through 16195 (EK)
917	3-171-419-03	s WHEEL		Serial No. 10001 through 10015 (UC)	
918	3-171-420-01	o SHUTTER	1-698-152-11	s MOTOR, DC SVD-1449 Serial No. 16196 and higher (EK)	
919	3-171-421-01	o SLIDER, DOOR SWITCHING		Serial No. 10016 and higher (UC)	
920	3-171-422-01	o LEVER, DOOR SWITCHING	951	A-6751-474-A	s CASSETTE COMPARTMENT ASSY
921	3-171-423-02	o JOINT, MOTOR	952	3-701-443-21	s WASHER
922	3-171-424-01	o HOLDER, SENSOR	953	3-701-441-11	s WASHER
923	3-171-457-01	o SHAFT, JOINT	954	3-701-439-21	s WASHER
924	3-171-458-01	s BELT, TIMING	955	1-640-170-13	o PRINTED CIRCUIT BOARD, CL-25
925	3-171-459-01	s ROLLER, GUIDE	956	1-640-171-12	o PRINTED CIRCUIT BOARD, PC-62
926	3-171-460-01	s ROLLER, SLIDER	957	3-176-139-01	s SPRING, C GUIDE
927	3-171-461-01	o SHAFT, RETAINER, L CASSETTE	958	1-640-172-11	o PRINTED CIRCUIT BOARD, LP-57
928	3-171-462-01	o HOLDER, SHAFT	959	3-554-122-01	s SPRING, TENSION Serial No. 10001 through 12950
929	3-171-463-03	o PLATE	3-176-579-01	s SPRING, TENSION Serial No. 12951 and higher	
930	3-171-464-01	o SPRING, LEAF			
931	3-171-465-01	o GEAR, DRIVING			
932	3-171-466-02	o GEAR, LIMITER			
933	3-171-477-02	o WHEEL, WORM Serial No. 10001 through 14965 (EK) Serial No. 10001 through 10010 (UC)			
	3-181-430-01	o WHEEL, WORM Serial No. 14966 and higher (EK) Serial No. 10011 and higher (UC)			
934	3-171-478-01	o RUBBER, LIMITER Serial No. 10001 through 14965 (EK) Serial No. 10001 through 10010 (UC)			
	3-181-431-01	o RUBBER, LIMITER Serial No. 14966 and higher (EK) Serial No. 10011 and higher (UC)			
935	3-171-479-01	o GEAR, MIDWAY			
936	3-171-480-01	o SHAFT, WORM WHEEL			
937	3-171-508-04	o HOLDER, LAMP			
938	3-171-510-02	s DOOR, CASSETTE			

Cassette compartment assembly



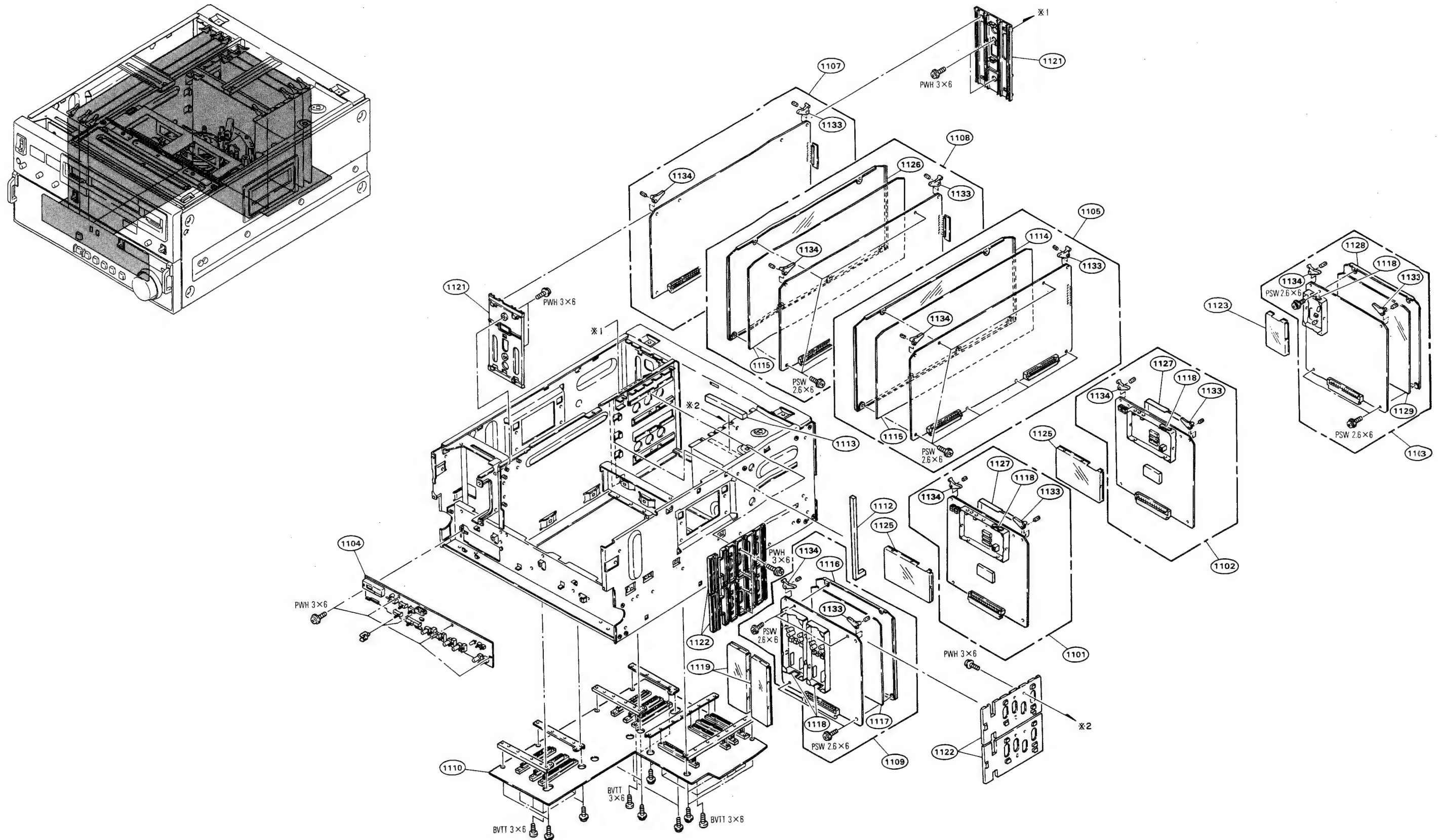
Chassis and ornamental panel block



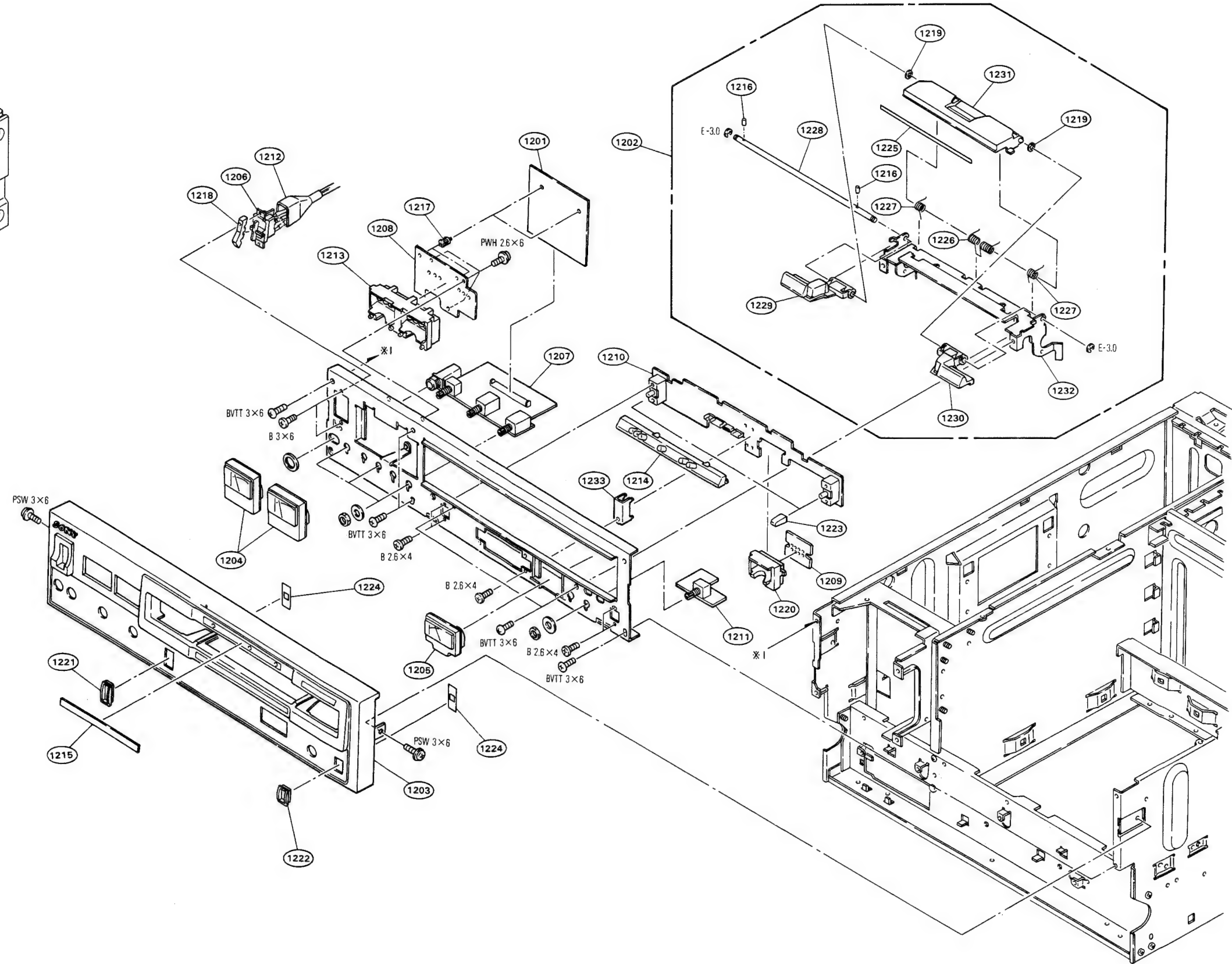
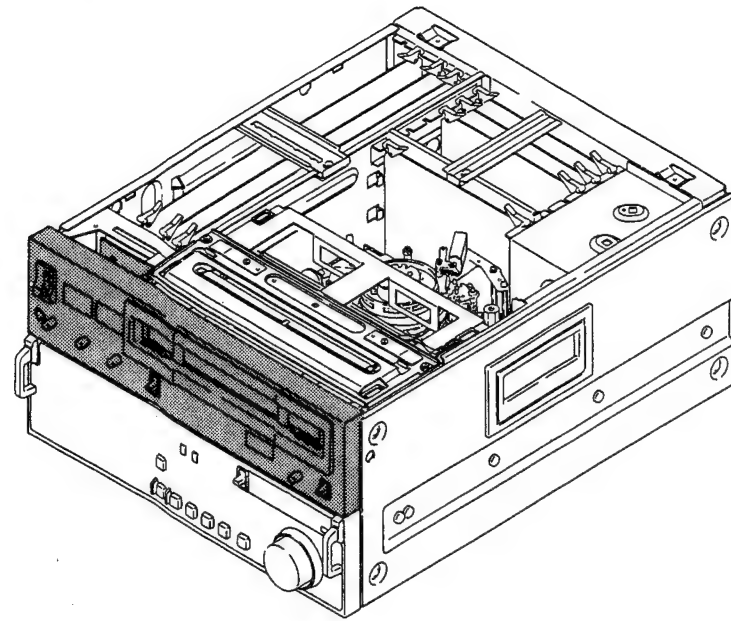
No.	Part No.	SP Description
1001	A-6703-711-F	o LID ASSY, UPPER
1002	A-6771-428-A	s STAY ASSY, CASSETTE COMPARTMENT
1004	X-3166-071-1	s KNOB ASSY (B), VOL
1005	X-3166-076-5	o HINGE (L) ASSY
1006	X-3166-077-5	o HINGE (R) ASSY
1007	X-3642-018-3	o HANDLE ASSY
1008	Δ1-413-675-12	s REGULATOR, SWITCHING
1009	3-171-368-01	o CUSHION Serial No. 10001 through 11150 (EK)
1010	3-171-369-01	o LID (A), UPPER, AIR GUARD
1011	3-171-377-02	o RETAINER (L), PC BOARD
1012	3-171-408-01	o RETAINER (L), PC BOARD
1013	3-171-409-01	o RETAINER (S), PC BOARD
1014	3-171-410-01	o RETAINER (S), PC BOARD
1015	3-171-411-01	o RETAINER (RP), PC BOARD
1016	3-171-489-01	o BRACKET, PLATE, BOTTOM
1017	3-717-393-03	o PLATE (LARGE), ORNAMENTAL, SW
1018	3-171-533-01	o CABINET (RIGHT)
1019	3-171-534-01	o CABINET (LEFT)
1020	3-171-535-02	o PLATE, BOTTOM
1021	3-171-536-01	o PLATE, ORNAMENTAL, HC
1022	3-642-656-01	s FOOT
1023	3-688-102-01	o SPACER, M4
1024	3-717-306-01	o SPRING
1025	3-717-394-03	o PLATE (SMALL), ORNAMENTAL, SW
1026	3-174-264-01	s SCREW (+) (B4X8) (CU, NI)

No.	Part No.	SP Description
1101	A-6713-472-A	o MOUNTED CIRCUIT BOARD, AU-148AP
1102	A-6713-473-A	o MOUNTED CIRCUIT BOARD, AU-149AP
1103	A-6713-456-A	o MOUNTED CIRCUIT BOARD, AU-150A
1104	A-6717-635-B	o MOUNTED CIRCUIT BOARD, HC-14C
1105	A-6717-637-A	o MOUNTED CIRCUIT BOARD, SS-48P
1107	A-6727-374-B	o MOUNTED CIRCUIT BOARD, VP-33AP
1108	A-6727-378-B	o MOUNTED CIRCUIT BOARD, TBC-18P
1109	A-6727-375-A	o MOUNTED CIRCUIT BOARD, RP-57AP
1110	A-6754-338-A	o MOUNTED CIRCUIT BOARD, MB-322A Serial No. 10001 through 11680 (EK)
	A-8276-480-A	o MOUNTED CIRCUIT BOARD, MB-322D Serial No. 11681 and higher (EK) Serial No. 10001 and higher (UC)
1111	2-251-622-11	s LEVER, PC BOARD Serial No. 10001 through 14435 (EK) Serial No. 10001 through 10010 (UC)
1112	3-171-413-01	o GUARD (M), AIR
1113	3-171-414-02	o GUARD (SW), AIR
1114	3-171-453-03	o PLATE (L), SHIELD, CARD
1115	3-171-454-02	o SHEET (L), CARD
1116	X-3166-417-2	o PLATE (S) ASSY, SHIELD, CARD
1117	3-171-456-02	o SHEET (S), CARD
1118	3-171-485-02	o GUARD, EDGE
1119	1-949-962-11	o HARNESS (RP SHIELD)
1121	3-171-525-02	o GUIDE (L), PCB
1122	3-171-527-01	o GUIDE (S), PCB
1123	3-172-937-01	o LID, AU SHIELD PLATE (2)
1125	3-172-941-02	o LID, AU SHIELD PLATE (1)
1126	X-3166-572-1	o PLATE (TBC) ASSY, SHIELD, CARD Serial No. 10001 through 10650 (EK)
	3-171-453-03	o PLATE (L), SHIELD, CARD Serial No. 10651 and higher (EK) Serial No. 10001 and higher (UC)
1127	3-173-739-03	o SHIELD (B), AU
1128	3-171-455-01	o PLATE (S), SHIELD, CARD Serial No. 10001 through 11150 (EK)
1129	3-171-456-02	s SHEET (S), CARD Serial No. 10001 through 11150 (EK)
1130	3-179-084-01	s LEVER (R), PC BOARD Serial No. 14436 and higher (EK) Serial No. 10011 and higher (UC)
1131	3-179-085-01	s LEVER (L), PC BOARD Serial No. 14436 and higher (EK) Serial No. 10011 and higher (UC)

Card rack block



Front panel block

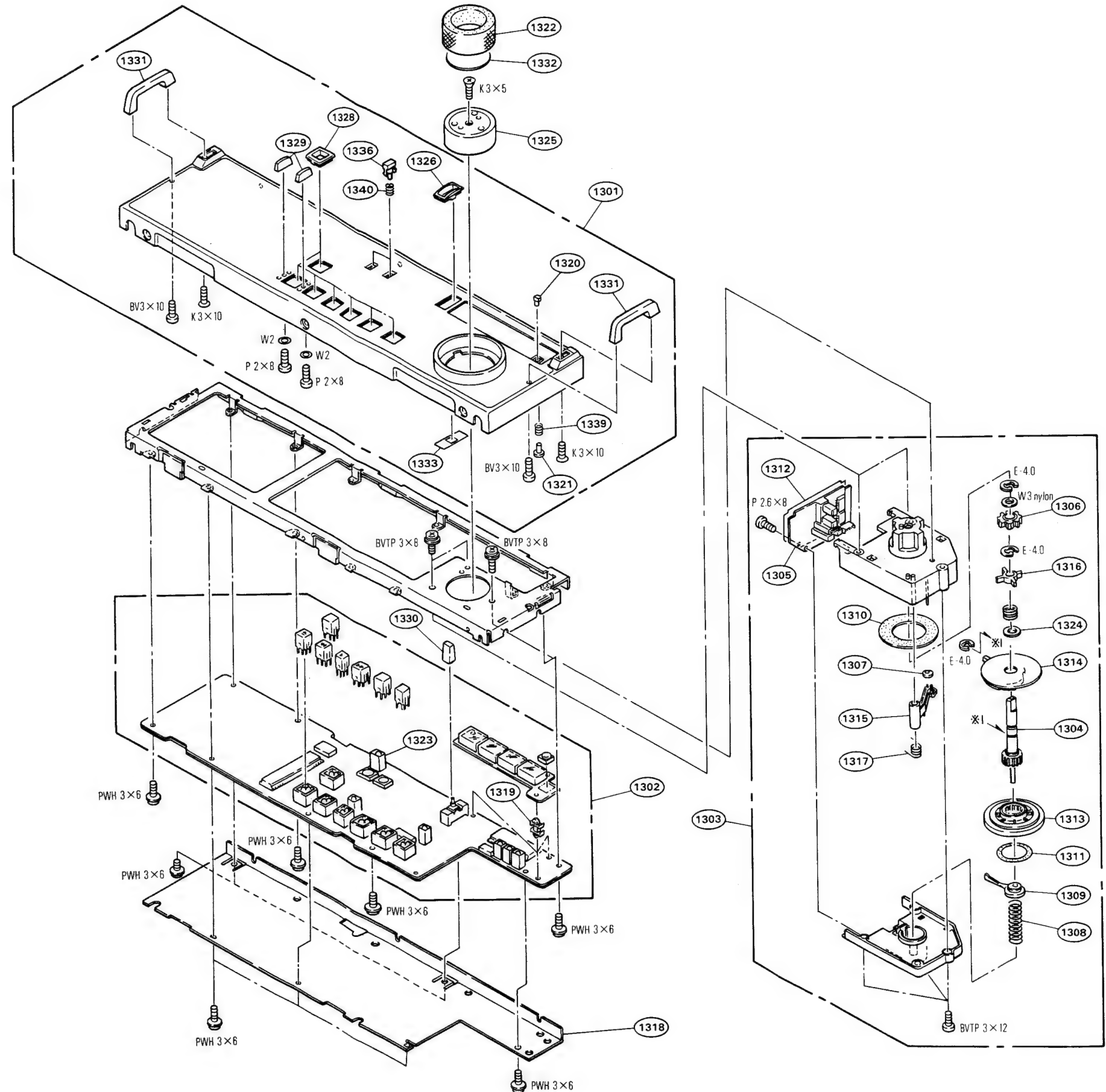
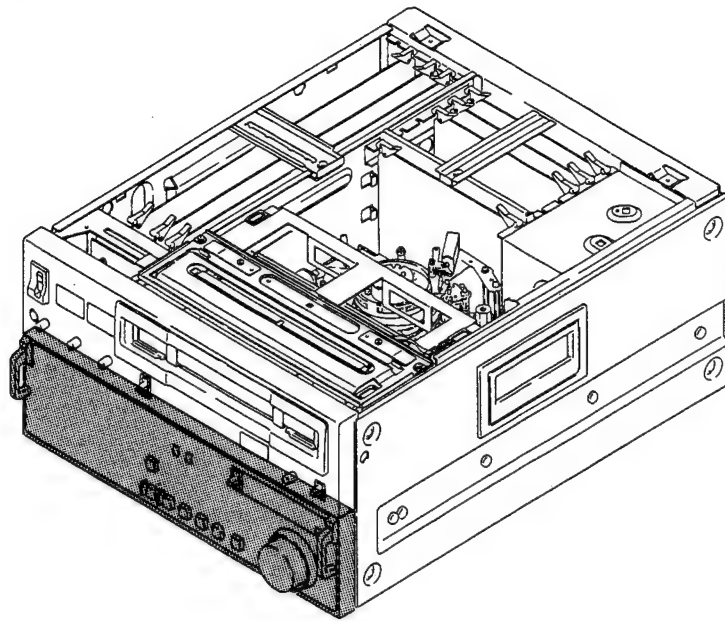


No.	Part No.	SP Description
1201	A-6713-450-A	o MOUNTED CIRCUIT BOARD, MA-44A
1202	A-6751-377-G	o GUIDE ASSY, SC
1203	X-3166-045-2	o PANEL SUB ASSY, FRONT
1204	1-520-393-21	s METER, AUDIO LEVEL
1205	1-520-494-21	s METER, VIDEO LEVEL
1206	△1-570-117-31	s SWITCH, ROCKER "POWER"
1207	1-640-039-21	o PRINTED CIRCUIT BOARD, VR-116A
1208	1-640-040-21	o PRINTED CIRCUIT BOARD, DP-138A
1209	1-640-042-21	o PRINTED CIRCUIT BOARD, DP-159A
1210	1-640-043-21	o PRINTED CIRCUIT BOARD, SW-444A
1211	1-640-044-21	o PRINTED CIRCUIT BOARD, VR-117A
1212	2-269-962-00	o COVER, SWITCH
1213	3-171-415-01	o HOLDER, METER LED
1214	3-171-416-01	o HOLDER, LED
1215	3-171-291-11	o LABEL (P), MODEL
1216	3-677-193-00	o PIN, STOPPER
1217	3-682-419-11	o HOLDER, P.C.B
1218	3-688-814-01	s CAP, SWITCH
1219	3-701-441-21	s WASHER, POLY 4MM DIA., 0.50T
1220	3-717-323-01	o COVER, METER LED
1221	3-717-374-01	o FRAME (23X12), ORNAMENTAL, SW
1222	3-717-375-01	o FRAME (18X12), ORNAMENTAL, SW
1223	3-717-382-01	s KNOB, LEVER SW
1224	3-717-613-01	o PLATE, ORNAMENTAL, LSW
1225	3-717-614-01	o LABEL, C-LOCK OUT
1226	3-717-615-01	o SPRING
1227	3-717-616-01	o SPRING
1228	3-717-617-01	o SHAFT, SC GUIDE
1229	3-717-618-01	o GUIDE (LEFT), SC
1230	3-717-619-02	o GUIDE (RIGHT), SC
1231	3-717-620-01	o PLATE, OUT, C-LOCK
1232	3-717-621-03	o PLATE, INDICATION, SC GUIDE
1233	3-717-672-01	o STOPPER, KY

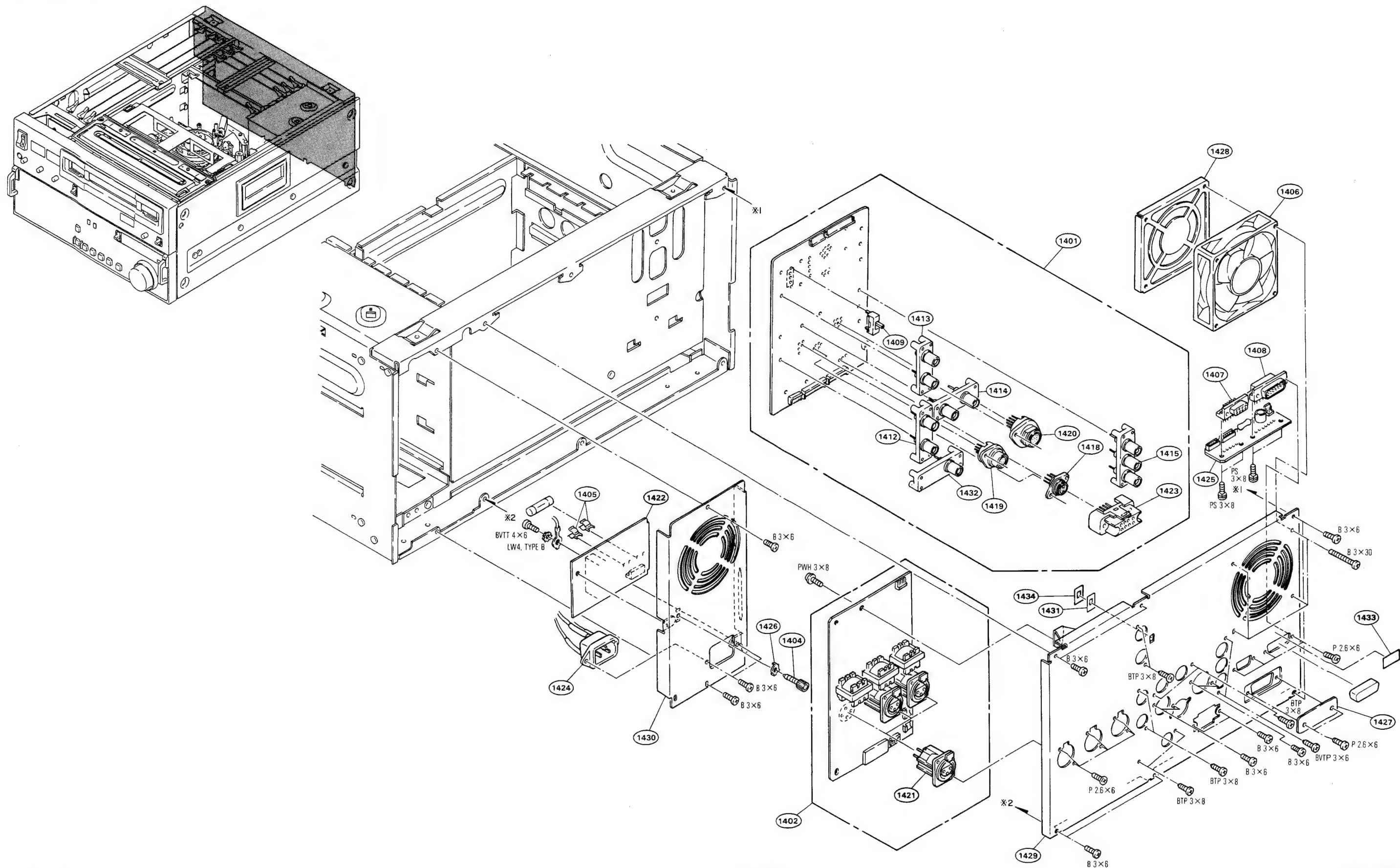
INCTION CONTROL PANEL BLOCK

No.	Part No.	SP Description
1301	A-6704-546-A	o PANEL ASSY, KEY
1302	A-6717-621-B	o MOUNTED CIRCUIT BOARD, KY-210A
1303	A-6734-253-A	o DIAL BLOCK ASSY, SERCH
1304	X-2124-627-1	o SHAFT SUB ASSY, MAIN
1305	1-633-548-13	o PRINTED CIRCUIT BOARD, PTC-39
1306	2-124-690-01	o GUIDE, LOCK IN
1307	2-124-691-01	s ROLLER
1308	2-124-692-01	o SPRING, COMPRESSION
1309	2-124-693-02	s PLATE
1310	2-124-694-02	o PLATE, CLUTCH
1311	2-124-695-01	o PLATE, CUSHION
1312	2-124-696-01	o PROTECTOR, PTC
1313	2-143-601-01	s RING, FG
1314	2-143-602-03	o CAM, SD
1315	2-143-603-01	o ARM, RETURN
1316	2-143-604-01	o GUIDE, LOCK OUT
1317	2-143-613-01	s SPRING, TORSION
1318	3-171-532-02	o PROTECTOR, KY
1319	3-660-828-00	o HOLDER (9), PC BOARD
1320	3-668-008-02	s PUSH BUTTON (3X5)
1321	3-668-009-02	s PIN, PUSH BUTTON
1322	3-668-012-00	s RUBBER, DIAL KNOB
1323	3-668-124-00	o HOLDER, LED
1324	3-701-443-21	s WASHER, POLY 5MM DIA., 0.50T
1325	3-717-370-01	o KNOB, DIAL
1326	3-717-374-01	o FRAME (23X12), ORNAMENTAL, SW
1328	3-717-377-01	o FRAME (SQUARE 17), ORNAMENTAL
1329	3-717-380-01	o GUARD, REC
1330	3-717-382-01	s KNOB, LEVER SW
1331	3-717-425-21	o HANDLE
1332	3-717-557-01	o PLATE, KNOB
1333	3-717-613-01	o PLATE, ORNAMENTAL, LSW
1336	3-718-681-01	s PUSH BUTTON
1339	4-309-349-00	s SPRING, COIL
1340	4-866-613-00	s SPRING, COMPRESSION

Function control panel block



Rear panel block



No.	Part No.	SP Description
1401	A-6713-451-A	o MOUNTED CIRCUIT BOARD, CP-166A
1402	A-6713-452-A	o MOUNTED CIRCUIT BOARD, CP-167A
1404	X-2068-004-0	s TERMINAL ASSY
1405	1-533-189-11	o HOLDER, FUSE
1406	1-541-431-31	s FAN, DC "FAN"
1407	1-563-770-11	s CONNECTOR, D-SUB 9P, FEMALE Serial No. 10001 through 16135 (EK) Serial No. 10001 through 10010 (UC)
	1-573-566-11	s CONNECTOR, D-SUB 9P, FEMALE Serial No. 16136 and higher (EK) Serial No. 10011 and higher (UC)
1408	1-566-319-11	o CONNECTOR, D-SUB 15P, FEMALE Serial No. 10001 through 16135 (EK) Serial No. 10001 through 10010 (UC)
	1-764-259-11	o CONNECTOR, D-SUB 15P, FEMALE Serial No. 16136 and higher (EK) Serial No. 10011 and higher (UC)
1409	1-570-157-51	s SWITCH, SLIDE
1412	1-573-580-11	s CONNECTOR, BNC FEMALE
1413	1-573-581-11	s CONNECTOR, BNC FEMALE
1414	1-573-582-11	s CONNECTOR, BNC FEMALE
1415	1-573-584-11	s CONNECTOR, BNC FEMALE
1418	1-573-590-12	s CONNECTOR, CIRCULAR 4P, FEMALE
1419	1-573-591-11	s CONNECTOR, CIRCULAR 7P, FEMALE
1420	1-573-592-11	s CONNECTOR, CIRCULAR 12P, FEMALE
1421	1-573-593-11	s CONNECTOR, XLR 3P, MALE
1422	1-641-145-12	o PRINTED CIRCUIT BOARD, AC-133
1423	1-573-602-11	s CONNECTOR, 8P(MONITOR), FEMALE
1424	1-580-375-21	o INLET, AC 3P, MALE
1425	1-640-048-21	o PRINTED CIRCUIT BOARD, RM-93A
1426	2-068-008-00	s WASHER
1427	3-171-451-01	o PANEL, OP
1428	3-171-452-02	o COVER, FAN
1429	3-171-530-31	o PANEL, CONNECTOR Serial No. 10001 through 13615 (EK)
	X-3166-889-2	o PANEL SUB ASSY, CONNECTOR Serial No. 13616 and higher (EK) Serial No. 10001 and higher (UC)
1430	3-171-531-01	o PANEL, POWER Serial No. 10001 through 13615 (EK)
	X-3166-892-1	o PANEL SUB ASSY, POWER Serial No. 13616 and higher (EK) Serial No. 10001 and higher (UC)
1431	3-717-394-03	o PLATE (SMALL), ORNAMENTAL, SW
1432	1-573-583-11	s CONNECTOR, BNC FEMALE
1433	3-176-091-01	o LABEL (TBC REMOTE, ENGLISH)
1434	3-173-384-01	o SPACER, ORNAMENTAL PLATE

18-3. ELECTRICAL PARTS LIST

AC-133 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-641-145-13	o PRINTED CIRCUIT BOARD, AC-133
2pcs	1-533-189-11	s HOLDER, FUSE
1pc	4-949-521-20	o LABEL (B) (T.H), FUSE RATING
C1	△ 1-136-185-00	s FILM 0.22uF 20% 250V
C2	△ 1-161-741-00	s CERAMIC 0.001uF 10% 400V
C3	△ 1-161-741-00	s CERAMIC 0.001uF 10% 400V
C4	△ 1-161-740-00	s CERAMIC 470PF 10% 400V
C5	△ 1-161-741-00	s CERAMIC 0.001uF 10% 400V
C6	△ 1-161-741-00	s CERAMIC 0.001uF 10% 400V
C7	△ 1-161-740-00	s CERAMIC 470PF 10% 400V
CN998	1-564-241-00	o CONNECTOR 4P, MALE
CN999	1-564-241-00	o CONNECTOR 4P, MALE
F1	△ 1-576-231-11	s FUSE (H.B.C.)
L1	△ 1-424-598-11	s COIL, CHOKE
R1	△ 1-260-135-11	s CARBON 1M 5% 1/2W

AU-148AP BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6713-472-A	o MOUNTED CIRCUIT BOARD, AU-148AP
1pc	3-171-456-02	o SHEET (S), CARD
1pc	3-171-485-02	o GUARD, EDGE
1pc	3-173-739-03	o SHIELD (B), AU
1pc	7-621-759-45	s +PSW, 2.6X6
1pc	3-179-084-01	s LEVER (R), PC BOARD
1pc	3-179-085-01	s LEVER (L), PC BOARD
C105	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C106	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C107	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C108	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C109	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C111	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C112	1-163-023-00	s CERAMIC, CHIP 0.015uF 10% 50V
C113	1-126-101-11	s ELECT 100uF 20% 16V
C114	1-124-907-11	s ELECT 10uF 20% 50V
C115	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C116	1-130-481-00	s MYLAR 0.0068uF 5% 50V
C117	1-124-916-11	s ELECT 22uF 20% 50V
C118	1-124-916-11	s ELECT 22uF 20% 50V
C119	1-124-916-11	s ELECT 22uF 20% 50V
C120	1-130-487-00	s MYLAR 0.022uF 5% 50V
C121	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C122	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C123	1-130-487-00	s MYLAR 0.022uF 5% 50V
C124	1-130-487-00	s MYLAR 0.022uF 5% 50V
C125	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C126	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C127	1-130-487-00	s MYLAR 0.022uF 5% 50V
C128	1-130-487-00	s MYLAR 0.022uF 5% 50V
C129	1-130-487-00	s MYLAR 0.022uF 5% 50V
C130	1-130-487-00	s MYLAR 0.022uF 5% 50V
C131	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C132	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C133	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C134	1-130-473-00	s MYLAR 0.0015uF 5% 50V
C135	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C136	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C137	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C138	1-124-907-11	s ELECT 10uF 20% 50V
C139	1-164-182-11	s CERAMIC 0.0033uF 1% 50V
C201	1-163-033-00	s CERAMIC, CHIP 0.02uF 50V
C202	1-130-483-00	s MYLAR 0.01uF 5% 50V
C203	1-163-275-11	s CERAMIC, CHIP 0.00uF 5% 50V
C204	1-163-275-11	s CERAMIC, CHIP 0.00uF 5% 50V
C205	1-163-275-11	s CERAMIC, CHIP 0.00uF 5% 50V
C206	1-163-275-11	s CERAMIC, CHIP 0.00uF 5% 50V
C207	1-124-907-11	s ELECT 10uF 20% 50V
C208	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C209	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C210	1-124-925-11	s ELECT 2.2uF 20% 50V
C213	1-130-728-00	s FILM 0.0022uF 2% 10V
C214	1-130-728-00	s FILM 0.0022uF 2% 10V
C215	1-136-682-11	s FILM 0.0039uF 2% 10V
C216	1-131-345-00	s TANTALUM 0.47uF 10% 35V
C217	1-130-497-00	s MYLAR 0.15uF 5% 50V
C218	1-130-738-00	s FILM 0.015uF 1% 10V
C219	1-130-499-00	s MYLAR 0.22uF 5% 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C220	1-164-344-11 s	CERAMIC 0.068uF 10% 25V
C221	1-130-765-00 s	FILM 0.056uF 5% 100V
C222	1-136-683-11 s	FILM 0.0056uF 2% 100V
C223	1-130-736-11 s	FILM 0.01uF 5% 50V
C224	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C225	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C226	1-163-121-00 s	CERAMIC, CHIP 150PF 5% 50V
C227	1-124-907-11 s	ELECT 10uF 20% 50V
C228	1-130-478-00 s	MYLAR 0.0039uF 5% 50V
C229	1-124-477-11 s	ELECT 47uF 20% 16V
C230	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C231	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C232	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C233	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C234	1-124-477-11 s	ELECT 47uF 20% 16V
C235	1-130-483-00 s	MYLAR 0.01uF 5% 50V
C236	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C243	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C244	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C245	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C246	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C247	1-130-478-00 s	MYLAR 0.0039uF 5% 50V
C248	1-131-349-00 s	TANTALUM 2.2uF 10% 16V
C249	1-131-349-00 s	TANTALUM 2.2uF 10% 16V
C336	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C504	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C505	1-124-477-11 s	ELECT 47uF 20% 16V
C506	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C507	1-124-477-11 s	ELECT 47uF 20% 16V
C508	1-126-101-11 s	ELECT 100uF 20% 16V
C509	1-126-101-11 s	ELECT 100uF 20% 16V
C510	1-124-477-11 s	ELECT 47uF 20% 16V
C511	1-124-477-11 s	ELECT 47uF 20% 16V
C512	1-124-916-11 s	ELECT 22uF 20% 50V
C513	1-124-916-11 s	ELECT 22uF 20% 50V
CN2	1-506-468-11 s	CONNECTOR 3P, MALE
CN111	1-573-600-21 s	CONNECTOR, PHEC 100P, MALE
D103	8-719-123-85 s	DIODE 1SS304
D104	8-719-123-85 s	DIODE 1SS304
D201	8-719-941-23 s	DIODE DA204U
D202	8-719-941-23 s	DIODE DA204U
D204	8-719-941-23 s	DIODE DA204U
D207	8-719-941-23 s	DIODE DA204U
D209	8-719-123-85 s	DIODE 1SS304
D501	8-719-105-32 s	DIODE RD2.7M-B2
D502	8-719-105-32 s	DIODE RD2.7M-B2
D503	8-719-105-28 s	DIODE RD2.4M-B
D504	8-719-105-28 s	DIODE RD2.4M-B
IC101	8-759-701-25 s	IC NJM2068D-D
IC102	8-759-701-25 s	IC NJM2068D-D
IC103	8-759-701-25 s	IC NJM2068D-D
IC104	8-759-701-25 s	IC NJM2068D-D
IC201	8-759-705-58 s	IC NJM4558D-D
IC202	8-759-705-58 s	IC NJM4558D-D
IC203	8-759-705-58 s	IC NJM4558D-D
IC204	8-752-018-80 s	IC CX20188
IC205	8-759-981-96 s	IC RC4560D
IC206	8-759-982-03 s	IC RC5532DD

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Ref. No. or Q'ty	Part No.	SPDescription
IC207	8-759-982-03 s	IC RC5532DD
IC503	8-759-708-05 s	IC NJM78L05A
IC504	8-759-700-65 s	IC NJM79L05A
LV101	1-410-934-21 s	COIL, VARIABLE 7.1uH
Q105	8-729-109-44 s	TRANSISTOR 2SK94
Q106	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q107	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q108	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q109	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q110	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q111	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q112	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q201	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q202	8-729-109-44 s	TRANSISTOR 2SK94
Q205	8-729-203-30 s	TRANSISTOR 2SJ106Y
Q206	8-729-109-44 s	TRANSISTOR 2SK94
Q207	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q208	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q209	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q210	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q211	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q212	8-729-905-12 s	TRANSISTOR DTA144EU
Q501	8-729-140-98 s	TRANSISTOR 2SD773
Q502	8-729-140-93 s	TRANSISTOR 2SB733
Q503	8-729-140-93 s	TRANSISTOR 2SB733
Q504	8-729-140-98 s	TRANSISTOR 2SD773
Q505	8-729-140-93 s	TRANSISTOR 2SB733
Q506	8-729-140-98 s	TRANSISTOR 2SD773
R110	1-216-009-00 s	METAL, CHIP 22 5% 1/10W
R111	1-249-393-11 s	CARBON 10 5% 1/4W
R113	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R114	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R116	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R117	1-216-105-00 s	METAL, CHIP 220K 5% 1/10W
R118	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R119	1-216-625-11 s	METAL, CHIP 82 0.5% 1/10W
R120	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R121	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R122	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R123	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R124	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R125	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R126	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R127	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R128	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R129	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R130	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R131	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R132	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R133	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R134	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R135	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R136	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R137	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R138	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R139	1-215-473-00 s	METAL 150K 1% 1/4W
R140	1-208-812-11 s	METAL 18K 0.5% 1/10W
R142	1-215-471-00 s	METAL 120K 1% 1/4W

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Ref. No. or Q'ty	Part No.	SPDescription
R143	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R144	1-215-485-00 s	METAL 470K 1% 1/4W
R145	1-215-479-00 s	METAL 270K 1% 1/4W
R146	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R147	1-216-692-11 s	METAL, CHIP 51K 0.5% 1/10W
R148	1-215-467-00 s	METAL 82K 1% 1/4W
R149	1-208-812-11 s	METAL 18K 0.5% 1/10W
R150	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R151	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R152	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R153	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R154	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R155	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R156	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R157	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R158	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R159	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R161	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R162	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R201	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R202	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R203	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R204	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R205	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R208	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R209	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R210	1-216-622-11 s	METAL, CHIP 62 0.5% 1/10W
R211	1-216-622-11 s	METAL, CHIP 62 0.5% 1/10W
R212	1-216-678-11 s	METAL, CHIP 13K 0.5% 1/10W
R213	1-216-673-11 s	METAL, CHIP 8.2K 0.5% 1/10W
R214	1-216-652-11 s	METAL, CHIP 1.1K 0.5% 1/10W
R215	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
R216	1-216-676-11 s	METAL, CHIP 11K 0.5% 1/10W
R217	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R218	1-208-785-11 s	METAL 1.3K 0.5% 1/10W
R219	1-215-493-00 s	METAL 1M 1% 1/4W
R220	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R221	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R222	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R223	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R224	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R225	1-216-686-11 s	METAL, CHIP 30K 0.5% 1/10W
R226	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R227	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R228	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R229	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R230	1-208-789-11 s	METAL 2K 0.5% 1/10W
R231	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R232	1-216-645-11 s	METAL, CHIP 560 0.5% 1/10W
R233	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R234	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R235	1-208-803-11 s	METAL 7.5K 0.5% 1/10W
R236	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R237	1-216-674-11 s	METAL, CHIP 9.1K 0.5% 1/10W
R238	1-208-812-11 s	METAL 18K 0.5% 1/10W
R239	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R240	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R241	1-216-009-00 s	METAL, CHIP 22 5% 1/10W
R243	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R244	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R245	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R246	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R247	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R248	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R249	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R250	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R251	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R252	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R256	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R262	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R263	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R264	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R265	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R266	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R267	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R268	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R269	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R270	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R271	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R272	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R274	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R275	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R276	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R277	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R279	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R280	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R281	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R282	1-216-009-00 s	METAL, CHIP 22 5% 1/10W
R283	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R284	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R285	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R288	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R501	1-249-411-11 s	CARBON 330 5% 1/4W
R502	1-249-411-11 s	CARBON 330 5% 1/4W
R503	1-216-031-00 s	METAL, CHIP 180 5% 1/10W
R504	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R505	1-216-035-00 s	METAL, CHIP 270 5% 1/10W
R506	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R507	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R508	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R509	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R510	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R511	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R512	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R513	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R514	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
RV101	1-238-791-11 s	RES, ADJ, CERMET 200K
RV102	1-238-786-11 s	RES, ADJ, CERMET 5K
RV103	1-238-786-11 s	RES, ADJ, CERMET 5K
RV104	1-238-788-11 s	RES, ADJ, CERMET 20K
RV105	1-238-801-11 s	RES, ADJ, CERMET 5K
RV106	1-238-788-11 s	RES, ADJ, CERMET 20K
RV201	1-238-801-11 s	RES, ADJ, CERMET 5K
RV203	1-238-805-11 s	RES, ADJ, CERMET 100K
RV204	1-238-805-11 s	RES, ADJ, CERMET 100K
SW101	1-570-598-11 s	SWITCH, DIP 4-CKT

AC-149AP BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6713-473-A	o MOUNTED CIRCUIT BOARD, AU-149AP
1pc	3-171-456-02	o SHEET (S), CARD
1pc	3-171-485-02	o GUARD, EDGE
1pc	3-173-739-03	o SHIELD (B), AU
1pc	7-621-759-45	s +PSW, 2.6X6
1pc	3-179-084-01	s LEVER (R), PC BOARD
1pc	3-179-085-01	s LEVER (L), PC BOARD
C105	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C106	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C107	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C108	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C109	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C111	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C112	1-163-023-00	s CERAMIC, CHIP 0.015uF 10% 50V
C113	1-126-101-11	s ELECT 100uF 20% 16V
C114	1-124-907-11	s ELECT 10uF 20% 50V
C115	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C116	1-130-481-00	s MYLAR 0.0068uF 5% 50V
C117	1-124-916-11	s ELECT 22uF 20% 50V
C118	1-124-916-11	s ELECT 22uF 20% 50V
C119	1-124-916-11	s ELECT 22uF 20% 50V
C120	1-130-487-00	s MYLAR 0.022uF 5% 50V
C121	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C122	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C123	1-130-487-00	s MYLAR 0.022uF 5% 50V
C124	1-130-487-00	s MYLAR 0.022uF 5% 50V
C125	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C126	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C127	1-130-487-00	s MYLAR 0.022uF 5% 50V
C128	1-130-487-00	s MYLAR 0.022uF 5% 50V
C129	1-130-487-00	s MYLAR 0.022uF 5% 50V
C130	1-130-487-00	s MYLAR 0.022uF 5% 50V
C131	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C132	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C133	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C134	1-130-473-00	s MYLAR 0.0015uF 5% 50V
C135	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C136	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C137	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C138	1-124-907-11	s ELECT 10uF 20% 50V
C139	1-164-182-11	s CERAMIC 0.0033uF 10% 50V
C201	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C202	1-130-483-00	s MYLAR 0.01uF 5% 50V
C203	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C204	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C205	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C206	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C207	1-124-907-11	s ELECT 10uF 20% 50V
C208	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C209	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C210	1-124-925-11	s ELECT 2.2uF 20% 50V
C213	1-130-728-00	s FILM 0.0022uF 2% 100V
C214	1-130-728-00	s FILM 0.0022uF 2% 100V
C215	1-136-682-11	s FILM 0.0039uF 2% 100V
C216	1-131-345-00	s TANTALUM 0.47uF 10% 35V
C217	1-130-497-00	s MYLAR 0.15uF 5% 50V
C218	1-130-738-00	s FILM 0.015uF 1% 100V
C219	1-130-499-00	s MYLAR 0.22uF 5% 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C220	1-164-344-11	s CERAMIC 0.068uF 10% 25V
C221	1-130-765-00	s FILM 0.056uF 5% 100V
C222	1-136-683-11	s FILM 0.0056uF 2% 100V
C223	1-130-736-11	s FILM 0.01uF 5% 50V
C224	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C225	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C226	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C227	1-124-907-11	s ELECT 10uF 20% 50V
C228	1-130-478-00	s MYLAR 0.0039uF 5% 50V
C229	1-124-477-11	s ELECT 47uF 20% 16V
C230	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C231	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C232	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C233	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C234	1-124-477-11	s ELECT 47uF 20% 16V
C235	1-130-483-00	s MYLAR 0.01uF 5% 50V
C236	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C243	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C244	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C245	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C246	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C247	1-130-478-00	s MYLAR 0.0039uF 5% 50V
C248	1-131-349-00	s TANTALUM 2.2uF 10% 16V
C249	1-131-349-00	s TANTALUM 2.2uF 10% 16V
C336	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C504	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C505	1-124-477-11	s ELECT 47uF 20% 16V
C506	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C507	1-124-477-11	s ELECT 47uF 20% 16V
C508	1-126-101-11	s ELECT 100uF 20% 16V
C509	1-126-101-11	s ELECT 100uF 20% 16V
C510	1-124-477-11	s ELECT 47uF 20% 16V
C511	1-124-477-11	s ELECT 47uF 20% 16V
C512	1-124-916-11	s ELECT 22uF 20% 50V
C513	1-124-916-11	s ELECT 22uF 20% 50V
CN2	1-564-002-41	s CONNECTOR 3P, MALE
CN110	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
D103	8-719-123-85	s DIODE 1SS304
D104	8-719-123-85	s DIODE 1SS304
D201	8-719-941-23	s DIODE DA204U
D202	8-719-941-23	s DIODE DA204U
D204	8-719-941-23	s DIODE DA204U
D207	8-719-941-23	s DIODE DA204U
D209	8-719-123-85	s DIODE 1SS304
D501	8-719-105-32	s DIODE RD2.7M-B2
D502	8-719-105-32	s DIODE RD2.7M-B2
D503	8-719-105-28	s DIODE RD2.4M-B
D504	8-719-105-28	s DIODE RD2.4M-B
IC101	8-759-701-25	s IC NJM2068D-D
IC102	8-759-701-25	s IC NJM2068D-D
IC103	8-759-701-25	s IC NJM2068D-D
IC104	8-759-701-25	s IC NJM2068D-D
IC201	8-759-705-58	s IC NJM4558D-D
IC202	8-759-705-58	s IC NJM4558D-D
IC203	8-759-705-58	s IC NJM4558D-D
IC204	8-752-018-80	s IC CX20188
IC205	8-759-981-96	s IC RC4560D
IC206	8-759-982-03	s IC RC5532DD

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Ref. No. or Q'ty	Part No.	SPDescription
IC207	8-759-982-03 s	IC RC5532DD
IC503	8-759-708-05 s	IC NJM78L05A
IC504	8-759-700-65 s	IC NJM79L05A
LV101	1-410-934-21 s	COIL, VARIABLE 7.1uH
Q105	8-729-109-44 s	TRANSISTOR 2SK94
Q106	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q107	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q108	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q109	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q110	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q111	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q112	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q201	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q202	8-729-109-44 s	TRANSISTOR 2SK94
Q205	8-729-203-30 s	TRANSISTOR 2SJ106Y
Q206	8-729-109-44 s	TRANSISTOR 2SK94
Q207	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q208	8-729-209-06 s	TRANSISTOR 2SC4213-B
Q209	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q210	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q211	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q212	8-729-905-12 s	TRANSISTOR DTA144EU
Q501	8-729-140-98 s	TRANSISTOR 2SD773
Q502	8-729-140-93 s	TRANSISTOR 2SB733
Q503	8-729-140-93 s	TRANSISTOR 2SB733
Q504	8-729-140-98 s	TRANSISTOR 2SD773
Q505	8-729-140-93 s	TRANSISTOR 2SB733
Q506	8-729-140-98 s	TRANSISTOR 2SD773
R110	1-216-009-00 s	METAL, CHIP 22 5% 1/10W
R111	1-249-393-11 s	CARBON 10 5% 1/4W
R113	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R114	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R116	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R117	1-216-105-00 s	METAL, CHIP 220K 5% 1/10W
R118	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R119	1-216-625-11 s	METAL, CHIP 82 0.5% 1/10W
R120	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R121	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R122	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R123	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R124	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R125	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R126	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R127	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R128	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R129	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R130	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R131	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R132	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R133	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R134	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R135	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R136	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R137	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R138	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R139	1-215-473-00 s	METAL 150K 1% 1/4W
R140	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R141	1-215-477-00 s	METAL 220K 1% 1/4W

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Ref. No. or Q'ty	Part No.	SPDescription
R142	1-215-471-00 s	METAL 120K 1% 1/4W
R143	1-216-692-11 s	METAL, CHIP 51K 0.5% 1/10W
R144	1-215-459-00 s	METAL 39K 1% 1/4W
R145	1-215-484-00 s	METAL 430K 1% 1/4W
R146	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R147	1-216-695-11 s	METAL, CHIP 68K 0.5% 1/10W
R148	1-215-477-00 s	METAL 220K 1% 1/4W
R149	1-208-812-11 s	METAL 18K 0.50% 1/10W
R150	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R151	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R152	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R153	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R154	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R155	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R156	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R157	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R158	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R159	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R161	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R162	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R201	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R202	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R203	1-216-081-00 s	METAL, CHIP 22K 0.5% 1/10W
R204	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R205	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R208	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R209	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R210	1-216-622-11 s	METAL, CHIP 62 0.5% 1/10W
R211	1-216-622-11 s	METAL, CHIP 62 0.5% 1/10W
R212	1-216-678-11 s	METAL, CHIP 13K 0.5% 1/10W
R213	1-216-673-11 s	METAL, CHIP 8.2K 0.5% 1/10W
R214	1-216-652-11 s	METAL, CHIP 1.1K 0.5% 1/10W
R215	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
R216	1-216-676-11 s	METAL, CHIP 11K 0.5% 1/10W
R217	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R218	1-208-785-11 s	METAL 1.3K 0.5% 1/10W
R219	1-215-493-00 s	METAL 1M 1% 1/4W
R220	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R221	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R222	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R223	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R224	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R225	1-216-686-11 s	METAL, CHIP 30K 0.5% 1/10W
R226	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R227	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R228	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R229	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R230	1-208-789-11 s	METAL 2K 0.50% 1/10W
R231	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R232	1-216-645-11 s	METAL, CHIP 560 0.5% 1/10W
R233	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R234	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R235	1-208-803-11 s	METAL 7.5K 0.5% 1/10W
R236	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R237	1-216-674-11 s	METAL, CHIP 9.1K 0.5% 1/10W
R238	1-208-812-11 s	METAL 18K 0.5% 1/10W
R239	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R240	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R241	1-216-009-00 s	METAL, CHIP 22 5% 1/10W

(AC-149AP BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R243	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R244	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R245	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R246	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R247	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R248	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R249	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R250	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R251	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R252	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R256	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R262	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R263	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R264	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R265	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R266	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R267	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R268	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R269	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R270	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R271	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R272	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R274	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R275	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R276	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R277	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R279	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R280	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R281	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R282	1-216-009-00 s	METAL, CHIP 22 5% 1/10W
R283	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R284	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R285	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R288	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
R501	1-249-411-11 s	CARBON 330 5% 1/4W
R502	1-249-411-11 s	CARBON 330 5% 1/4W
R503	1-216-031-00 s	METAL, CHIP 180 5% 1/10W
R504	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R505	1-216-035-00 s	METAL, CHIP 270 5% 1/10W
R506	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R507	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R508	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R509	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R510	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R511	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R512	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R513	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R514	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
RV101	1-238-791-11 s	RES. ADJ, CERMET 200K
RV102	1-238-786-11 s	RES. ADJ, CERMET 5K
RV103	1-238-786-11 s	RES. ADJ, CERMET 5K
RV104	1-238-788-11 s	RES. ADJ, CERMET 20K
RV105	1-238-801-11 s	RES. ADJ, CERMET 5K
RV106	1-238-788-11 s	RES. ADJ, CERMET 20K
RV201	1-238-801-11 s	RES. ADJ, CERMET 5K
RV203	1-238-805-11 s	RES. ADJ, CERMET 100K
RV204	1-238-805-11 s	RES. ADJ, CERMET 100K
SW101	1-570-598-11 s	SWITCH, DIP

AU-150A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6713-456-A o	MOUNTED CIRCUIT, BOARD, AU-150A
1pc	3-171-485-02 o	GUARD, EDGE
1pc	3-179-084-01 s	LEVER (R), PC BOARD
1pc	3-179-085-01 s	LEVER (L), PC BOARD
C6	1-126-101-11 s	ELECT 100uF 20% 16V
C7	1-130-489-00 s	MYLAR 0.033uF 5% 50V
C10	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C11	1-124-907-11 s	ELECT 10uF 20% 50V
C202	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C203	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C204	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C501	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C502	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C503	1-124-477-11 s	ELECT 47uF 20% 16V
C510	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C511	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C512	1-124-477-11 s	ELECT 47uF 20% 16V
CN1	1-564-002-11 s	CONNECTOR 3P, MALE
CN109	1-573-600-21 s	CONNECTOR, PHEC 100P, MALE
D2	8-719-941-23 s	DIODE DA204U
D3	8-719-941-23 s	DIODE DA204U
IC4	8-759-153-69 s	IC UPC4572C
IC202	8-757-991-00 s	IC CX7991
IC203	8-757-991-00 s	IC CX7991
L501	1-410-470-11 s	INDUCTOR 10uH
L502	1-410-470-11 s	INDUCTOR 10uH
Q201	8-729-117-32 s	TRANSISTOR 2SC4177
Q203	8-729-117-32 s	TRANSISTOR 2SC4177
Q204	8-729-117-32 s	TRANSISTOR 2SC4177
Q205	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q207	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q208	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q209	8-729-117-32 s	TRANSISTOR 2SC4177
Q210	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q214	8-729-905-12 s	TRANSISTOR DTA144EU
Q215	8-729-905-12 s	TRANSISTOR DTA144EU
Q216	8-729-905-12 s	TRANSISTOR DTA144EU
Q217	8-729-905-12 s	TRANSISTOR DTA144EU
Q218	8-729-905-18 s	TRANSISTOR DTC144EU
Q221	8-729-905-12 s	TRANSISTOR DTA144EU
Q222	8-729-905-18 s	TRANSISTOR DTC144EU
R12	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R13	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R15	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R16	1-216-635-11 s	METAL, CHIP 220 0.5% 1/10W
R17	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R22	1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R24	1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R27	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R28	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R32	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R33	1-216-603-11 s	METAL, CHIP 10 0.5% 1/10W
R44	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R201	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R202	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R203	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W

(AU-150A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R204	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R205	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R207	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R208	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R209	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R211	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R212	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R213	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R215	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R216	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R220	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R222	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R223	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R224	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R225	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R226	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R227	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R228	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R229	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R230	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R231	1-216-089-00	s METAL, CHIP 47K 5% 1/10W

CL-25 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-170-13	o PRINTED CIRCUIT BOARD, CL-25
1pc	3-171-424-01	o HOLDER, SENSOR
C1	1-161-051-00	s CERAMIC 0.01uF 10% 50V
CN930	1-564-011-11	o CONNECTOR 12P, MALE
CN931	1-564-001-11	o CONNECTOR 2P, MALE
CN933	1-573-599-11	s CONNECTOR 5P, FEMALE
CN935	1-564-001-11	o CONNECTOR 2P, MALE
D1	8-719-938-07	s LED GL480, INFRARED
D2	8-719-938-07	s LED GL480, INFRARED
Q1	8-729-903-81	s PHOTO TRANSISTOR PT480
Q2	8-729-903-81	s PHOTO TRANSISTOR PT480
R1	1-247-825-31	s CARBON 560 5% 1/4W
R2	1-247-825-31	s CARBON 560 5% 1/4W

CP-166A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6713-451-A	o MOUNTED CIRCUIT BOARD, CP-166A
C1	1-126-101-11	s ELECT 100uF 20% 16V
C3	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C4	1-126-101-11	s ELECT 100uF 20% 16V
C7	1-126-101-11	s ELECT 100uF 20% 16V
C8	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-126-101-11	s ELECT 100uF 20% 16V
C12	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C13	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C14	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C15	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C16	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C17	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C18	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN1	1-573-581-11	s CONNECTOR, BNC, FEMALE
CN6	1-573-583-11	s CONNECTOR, BNC, FEMALE
CN7	1-573-580-11	s CONNECTOR, BNC, FEMALE
CN8	1-573-582-11	s CONNECTOR, BNC, FEMALE
CN9	1-573-590-12	s CONNECTOR, CIRCULAR 4P, FEMALE
CN11	1-573-592-11	s CONNECTOR, CIRCULAR 12P, FEMALE
CN12	1-573-591-11	s CONNECTOR, CIRCULAR 7P, FEMALE
CN13	1-573-602-11	s CONNECTOR 8P (MONITOR), FEMALE
CN650	1-506-490-21	s CONNECTOR 11P, MALE
CN652	1-506-481-11	s CONNECTOR 2P, MALE
CN653	1-506-489-11	s CONNECTOR 10P, MALE
CN654	1-506-493-11	s CONNECTOR 14P, MALE
CN655	1-564-014-11	s CONNECTOR 4P, MALE
FL4	1-236-129-11	s ENCAPSULATED COMPONENT
FL5	1-236-129-11	s ENCAPSULATED COMPONENT
IC1	8-752-052-73	s IC CXA1451M
IC2	8-752-052-73	s IC CXA1451M
IC3	8-752-052-73	s IC CXA1451M
IC4	8-759-701-75	s IC NJM7805FA
L1	1-410-482-31	s INDUCTOR 100uH
L2	1-410-482-31	s INDUCTOR 100uH
Q1	8-729-117-32	s TRANSISTOR 2SC4177
R1	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R2	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R3	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R4	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R10	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R11	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R12	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R13	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R14	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R15	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R16	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R17	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R18	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R19	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R20	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
S1	1-570-157-51	s SWITCH, SLIDE

CP-167A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6713-452-A	o MOUNTED CIRCUIT BOARD, CP-167A
C101	1-124-907-11	s ELECT 10uF 20% 50V
C102	1-124-910-11	s ELECT 47uF 20% 50V
C103	1-124-473-11	s ELECT 1000uF 20% 10V
C104	1-124-907-11	s ELECT 10uF 20% 50V
C105	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C106	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C107	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C108	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C109	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C111	1-124-473-11	s ELECT 1000uF 20% 10V
C112	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C201	1-124-907-11	s ELECT 10uF 20% 50V
C202	1-124-910-11	s ELECT 47uF 20% 50V
C203	1-124-473-11	s ELECT 1000uF 20% 10V
C204	1-124-907-11	s ELECT 10uF 20% 50V
C205	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C206	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C207	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C208	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C209	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C210	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C211	1-124-473-11	s ELECT 1000uF 20% 10V
C212	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C302	1-124-473-11	s ELECT 1000uF 20% 10V
C303	1-124-907-11	s ELECT 10uF 20% 50V
C304	1-124-473-11	s ELECT 1000uF 20% 10V
C305	1-124-907-11	s ELECT 10uF 20% 50V
C306	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C307	1-124-473-11	s ELECT 1000uF 20% 10V
C308	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C309	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C311	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C312	1-124-907-11	s ELECT 10uF 20% 50V
C313	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C314	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C315	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C316	1-124-473-11	s ELECT 1000uF 20% 10V
C317	1-124-907-11	s ELECT 10uF 20% 50V
C318	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C319	1-163-038-00	s CERAMIC, CHIP 0.1uF 25V
C320	1-124-473-11	s ELECT 1000uF 20% 10V
C321	1-124-473-11	s ELECT 1000uF 20% 10V
C501	1-124-925-11	s ELECT 2.2uF 20% 50V
C502	1-124-907-11	s ELECT 10uF 20% 50V
C503	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C504	1-124-925-11	s ELECT 2.2uF 20% 50V
C505	1-124-907-11	s ELECT 10uF 20% 50V
C506	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C507	1-124-907-11	s ELECT 10uF 20% 50V
CN601	1-506-481-11	s CONNECTOR 2P, MALE
CN602	1-506-485-11	s CONNECTOR 6P, MALE
CN603	1-506-484-11	s CONNECTOR 5P, MALE
CN607	1-573-593-11	s CONNECTOR, XLR 3P, MALE
CN608	1-573-593-11	s CONNECTOR, XLR 3P, MALE
CN609	1-573-593-11	s CONNECTOR, XLR 3P, MALE
D101	8-719-941-23	s DIODE DA204U

(CP-167A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
D102	8-719-123-82 s	DIODE 1SS303
D103	8-719-123-82 s	DIODE 1SS303
D201	8-719-941-23 s	DIODE DA204U
D301	8-719-941-23 s	DIODE DA204U
D302	8-719-123-82 s	DIODE 1SS303
D303	8-719-123-82 s	DIODE 1SS303
D304	8-719-123-85 s	DIODE 1SS304
D305	8-719-123-85 s	DIODE 1SS304
IC101	8-759-745-64 s	IC NJM4560M
IC102	8-759-745-64 s	IC NJM4560M
IC201	8-759-745-64 s	IC NJM4560M
IC302	8-759-745-64 s	IC NJM4560M
IC501	8-759-701-59 s	IC NJM7809FA
IC502	8-759-701-87 s	IC NJM7909FA
IC503	8-759-603-69 s	IC M51957BL
Q102	8-729-180-93 s	TRANSISTOR 2SD809-F
Q103	8-729-173-13 s	TRANSISTOR 2SB731-F
Q104	8-729-143-63 s	TRANSISTOR 2SJ132
Q105	8-729-143-63 s	TRANSISTOR 2SJ132
Q202	8-729-180-93 s	TRANSISTOR 2SD809-F
Q203	8-729-173-13 s	TRANSISTOR 2SB731-F
Q204	8-729-143-63 s	TRANSISTOR 2SJ132
Q205	8-729-143-63 s	TRANSISTOR 2SJ132
Q302	8-729-180-93 s	TRANSISTOR 2SD809-F
Q303	8-729-173-13 s	TRANSISTOR 2SB731-F
Q304	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q305	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q306	8-729-143-63 s	TRANSISTOR 2SJ132
Q307	8-729-143-63 s	TRANSISTOR 2SJ132
Q308	8-729-143-63 s	TRANSISTOR 2SJ132
Q309	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q310	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q311	8-729-143-63 s	TRANSISTOR 2SJ132
R101	1-247-807-31 s	CARBON 100 5% 1/4W
R102	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R103	1-216-399-00 s	METAL, CHIP 6.8 5% 3W
R104	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R105	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R106	1-216-668-11 s	METAL, CHIP 5.1K 0.5% 1/10W
R107	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R108	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R109	1-216-399-00 s	METAL, CHIP 6.8 5% 3W
R110	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R111	1-216-629-11 s	METAL, CHIP 120 0.5% 1/10W
R112	1-208-785-11 s	METAL 1.3K 0.5% 1/10W
R113	1-216-660-11 s	METAL, CHIP 2.4K 0.5% 1/10W
R114	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R115	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R116	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R117	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R119	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R120	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R121	1-249-389-11 s	CARBON 4.7 5% 1/4W
R122	1-247-807-31 s	CARBON 100 5% 1/4W
R123	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R124	1-216-674-11 s	METAL, CHIP 9.1K 0.5% 1/10W
R126	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R129	1-216-295-00 s	METAL, CHIP 0 5% 1/10W

(CP-167A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R130	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R132	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R201	1-247-807-31 s	CARBON 100 5% 1/4W
R202	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R203	1-216-399-00 s	METAL, CHIP 6.8 5% 3W
R204	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R205	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R206	1-216-668-11 s	METAL, CHIP 5.1K 0.5% 1/10W
R207	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R208	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R209	1-216-399-00 s	METAL, CHIP 6.8 5% 3W
R210	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R211	1-216-629-11 s	METAL, CHIP 120 0.5% 1/10W
R212	1-208-785-11 s	METAL 1.3K 0.5% 1/10W
R213	1-216-660-11 s	METAL, CHIP 2.4K 0.5% 1/10W
R214	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R215	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R216	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R217	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R219	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R220	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R222	1-247-807-31 s	CARBON 100 5% 1/4W
R223	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R224	1-216-674-11 s	METAL, CHIP 9.1K 0.5% 1/10W
R226	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R229	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R230	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R231	1-249-389-11 s	CARBON 4.7 5% 1/4W
R232	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R301	1-247-807-31 s	CARBON 100 5% 1/4W
R302	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R303	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R304	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R305	1-216-399-00 s	METAL, CHIP 6.8 5% 3W
R306	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R307	1-216-399-00 s	METAL, CHIP 6.8 5% 3W
R308	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R309	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R310	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R311	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R312	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R313	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R314	1-247-807-31 s	CARBON 100 5% 1/4W
R315	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R316	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R317	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R318	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R319	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R320	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R321	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R322	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R323	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R324	1-249-389-11 s	CARBON 4.7 5% 1/4W
R326	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R327	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R331	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R332	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R333	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R334	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W

(CP-167A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R335	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R336	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R337	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R338	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R501	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R502	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R503	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
T101	1-427-586-11 s	TRANSFORMER, INPUT/OUTPUT
T201	1-427-586-11 s	TRANSFORMER, INPUT/OUTPUT
T301	1-427-586-11 s	TRANSFORMER, INPUT/OUTPUT

DP-138A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-040-21 o	PRINTED CIRCUIT BOARD, DP-138A
1pc	3-171-415-01 o	HOLDER, METER LED
C1	1-163-033-00 s	CERAMIC 0.022uF 50V
CN490	1-506-481-11 o	CONNECTOR 2P, MALE
D1	8-719-820-27 s	LED TLY256, YEL
D2	8-719-820-27 s	LED TLY256, YEL
D3	8-719-820-27 s	LED TLY256, YEL
D4	8-719-820-27 s	LED TLY256, YEL
D5	8-719-820-27 s	LED TLY256, YEL
D6	8-719-820-27 s	LED TLY256, YEL
D7	8-719-820-27 s	LED TLY256, YEL
D8	8-719-820-27 s	LED TLY256, YEL
R1	1-249-409-11 s	CARBON 220 5% 1/4W
R2	1-249-409-11 s	CARBON 220 5% 1/4W
R3	1-249-409-11 s	CARBON 220 5% 1/4W
R4	1-249-409-11 s	CARBON 220 5% 1/4W

DP-139A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
All of component parts on the DP-139A board are supplied together when you order KY-210A board.		
D1060	8-719-942-19 s	LED LB402VK, RED
D1061	8-719-942-19 s	LED LB402VK, RED
D1062	8-719-942-19 s	LED LB402VK, RED
D1063	8-719-942-19 s	LED LB402VK, RED
D1060	8-719-942-19 s	LED LB402VK, RED
S1037	1-552-539-00 s	SWITCH, TACTILE

DP-159A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-042-21 o	PRINTED CIRCUIT BOARD, DP-159A
1pc	3-717-323-01 o	COVER, METER LED
C1	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
CN514	1-506-481-11 o	CONNECTOR (LIGHT ANGLE) 2P, MALE
D1	8-719-820-27 s	LED TLY256, YEL
D2	8-719-820-27 s	LED TLY256, YEL
D3	8-719-820-27 s	LED TLY256, YEL
D4	8-719-820-27 s	LED TLY256, YEL
R1	1-249-409-11 s	CARBON 220 5% 1/4W
R2	1-249-409-11 s	CARBON 220 5% 1/4W

DR-232A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-8271-718-A	o MOUNTED CIRCUIT BOARD, DR-232A
1pc	3-171-393-01	o SUPPORT, DR
1pc	3-701-822-01	o HOLDER, WIRE
1pc	7-682-903-11	s SCREW +PWH 3X6
1pc	3-176-491-01	o HEAT SINK (2), DR
2pcs	7-621-759-45	s +PSW, 2.6X6
1pc	3-660-978-11	s SHEET, HEAT RESISTING
3pcs	7-682-903-11	s SCREW +PWH 3X6
1pc	3-171-493-02	o HEAT SINK (A)
1pc	3-176-490-01	o HEAT SINK (1), DR
4pcs	4-911-232-01	s SHEET, INSULATING
3pcs	3-660-978-11	s SHEET, HEAT RESISTING
4pcs	7-682-549-09	s SCREW +B 3X10
3pcs	2-371-561-00	s BUSHING (P), INSULATING
4pcs	7-682-549-09	s SCREW +B 3X10
1pc	1-535-894-11	o TAB (PC BOARD)
C1	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C40	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C51	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C52	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C53	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C101	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C103	1-124-478-11	s ELECT 100uF 20% 25V
C104	1-124-907-11	s ELECT 10uF 20% 50V
C108	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C111	1-124-907-11	s ELECT 10uF 20% 50V
C121	1-124-907-11	s ELECT 10uF 20% 50V
C151	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C152	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C153	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C154	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C155	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C201	1-126-233-11	s ELECT 22uF 20% 25V
C204	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C205	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C206	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C208	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C209	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C210	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C212	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C213	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C221	1-124-477-11	s ELECT 47uF 20% 25V
C222	1-124-477-11	s ELECT 47uF 20% 25V
C251	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C252	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C253	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C257	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C261	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C267	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C271	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C272	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C273	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C277	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C281	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C282	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C283	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C287	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C301	1-124-482-11	s ELECT 33uF 20% 25V

(DR-232A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
C302	1-164-161-11	s CERAMIC 0.0022uF 10% 50V
C303	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C304	1-124-903-11	s ELECT 1uF 20% 50V
C305	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C306	1-164-344-11	s CERAMIC 0.068uF 10% 25V
C307	1-164-344-11	s CERAMIC 0.068uF 10% 25V
C308	1-164-344-11	s CERAMIC 0.068uF 10% 25V
C309	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C315	1-126-233-11	s ELECT 22uF 20% 25V
C316	1-124-903-11	s ELECT 1uF 20% 50V
C322	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C323	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C330	1-124-120-11	s ELECT 220uF 20% 25V
C401	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C402	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C403	1-131-388-00	s TANTALUM 68uF 10% 6.3V
C404	1-131-388-00	s TANTALUM 68uF 10% 6.3V
C405	1-124-907-11	s ELECT 10uF 20% 50V
C406	1-124-477-11	s ELECT 47uF 20% 16V
C407	1-126-233-11	s ELECT 22uF 20% 25V
C408	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C409	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C410	1-163-989-11	s CERAMIC, CHIP 0.033uF 10% 25V
C451	1-130-728-00	s FILM 0.0022uF 5% 50V
C452	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C453	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C454	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C455	1-124-477-11	s ELECT 47uF 20% 16V
C481	1-130-728-00	s FILM 0.0022uF 5% 50V
C482	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C483	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C484	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C485	1-124-477-11	s ELECT 47uF 20% 16V
C501	1-124-907-11	s ELECT 10uF 20% 50V
C502	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C503	1-163-986-00	s CERAMIC, CHIP 0.027uF 10% 25V
C504	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C505	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C510	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C511	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C551	1-126-101-11	s ELECT 100uF 20% 16V
C552	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C553	1-124-907-11	s ELECT 10uF 20% 50V
C554	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C555	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C556	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C557	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C558	1-130-477-00	s FILM 0.0033uF 5% 50V
C559	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C560	1-124-907-11	s ELECT 10uF 20% 50V
C561	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C562	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C563	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C564	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C565	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C583	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C584	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C585	1-130-477-00	s FILM 0.0033uF 5% 50V
C586	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V

(DR-232A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
C587	1-124-907-11	s ELECT 10uF 20% 50V
C590	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C591	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C592	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C601	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C602	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C603	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C604	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C605	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C610	1-126-101-11	s ELECT 100uF 20% 16V
C651	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C652	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C653	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C654	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C655	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C656	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C657	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C901	1-126-101-11	s ELECT 100uF 20% 16V
C902	1-124-480-11	s ELECT 470uF 20% 25V
C903	1-126-101-11	s ELECT 100uF 20% 16V
C904	1-126-101-11	s ELECT 100uF 20% 16V
C905	1-124-480-11	s ELECT 470uF 20% 25V
C906	1-124-907-11	s ELECT 10uF 20% 50V
C907	1-124-907-11	s ELECT 10uF 20% 50V
C951	1-124-907-11	s ELECT 10uF 20% 50V
C952	1-164-344-11	s CERAMIC 0.068uF 10% 25V
C953	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C954	1-124-120-11	s ELECT 220uF 20% 25V
C956	1-124-120-11	s ELECT 220uF 20% 25V
C957	1-163-023-00	s CERAMIC, CHIP 0.015uF 10% 50V
C958	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C959	1-124-903-11	s ELECT 1uF 20% 50V
C960	1-124-482-11	s ELECT 33uF 20% 25V
C961	1-124-907-11	s ELECT 10uF 20% 50V
CN300	1-564-209-00	o CONNECTOR, IL-S 10P, MALE
CN302	1-573-601-11	o CONNECTOR 64P, MALE
CN305	1-564-007-11	o CONNECTOR 8P, MALE
CN306	1-506-474-11	s CONNECTOR 9P, MALE
CN307	1-564-011-11	o CONNECTOR 12P, MALE
CN309	1-506-469-11	s CONNECTOR 4P, MALE
CN314	1-564-004-11	o CONNECTOR 5P, MALE
CN315	1-564-002-41	s CONNECTOR 3P, MALE
CN316	1-506-472-11	s CONNECTOR 7P, MALE
CN317	1-506-467-11	s CONNECTOR 2P, MALE
CN318	1-506-467-11	s CONNECTOR 2P, MALE
CN319	1-506-467-11	s CONNECTOR 2P, MALE
CN320	1-506-468-11	s CONNECTOR 3P, MALE
CN321	1-562-708-11	o CONNECTOR FPC 13P, FEMALE
CN322	1-562-708-11	o CONNECTOR FPC 13P, FEMALE
CN323	1-506-468-11	s CONNECTOR 3P, MALE
CN324	1-506-469-11	s CONNECTOR 4P, MALE
CN325	1-506-469-11	s CONNECTOR 4P, MALE
CN360	1-506-480-11	s CONNECTOR 15P, MALE
CNI51	1-526-652-21	s SOCKET, IC 8P
CNI52	1-526-652-21	s SOCKET, IC 8P
CNI53	1-526-652-21	s SOCKET, IC 8P
D101	8-719-200-02	s DIODE 10E-2
D102	8-719-200-02	s DIODE 10E-2

(DR-232A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
D111	8-719-200-02	s DIODE 10E-2
D112	8-719-200-02	s DIODE 10E-2
D121	8-719-200-02	s DIODE 10E-2
D122	8-719-200-02	s DIODE 10E-2
D301	8-719-123-85	s DIODE 1SS304
D311	8-719-123-85	s DIODE 1SS304
D312	8-719-123-85	s DIODE 1SS304
D401	8-719-123-85	s DIODE 1SS304
D402	8-719-123-85	s DIODE 1SS304
D403	8-719-123-85	s DIODE 1SS304
D551	8-719-123-82	s DIODE 1SS303
D581	8-719-123-82	s DIODE 1SS303
D951	8-719-903-06	s DIODE ERC84-009
D952	8-719-106-08	s DIODE RD6.2M-B2
IC1	8-759-938-68	s IC CXD1095Q
IC5	8-759-600-34	s IC M54532P
IC6	8-759-645-23	s IC M54523P
IC51	8-752-348-02	s IC CXK1023P
IC52	8-752-348-02	s IC CXK1023P
IC53	8-752-348-02	s IC CXK1023P
IC54	8-759-946-00	s IC MB88341PFV
IC101	8-759-205-56	s IC TA7267P
IC111	8-759-205-56	s IC TA7267P
IC112	8-759-205-56	s IC TA7267P
IC151	8-759-908-17	s IC TL082CPS
IC152	8-759-700-07	s IC NJM2903M
IC201	8-759-908-17	s IC TL082CPS
IC251	8-759-106-02	s IC UPC4570G2
IC252	8-759-700-07	s IC NJM2903M
IC253	8-759-106-02	s IC UPC4570G2
IC271	8-759-106-02	s IC UPC4570G2
IC272	8-759-700-07	s IC NJM2903M
IC273	8-759-106-02	s IC UPC4570G2
IC301	8-759-234-03	s IC TA8424F
IC302	8-759-908-17	s IC TL082CPS
IC304	8-759-925-80	s IC SN74HC14ANS
IC305	8-759-700-07	s IC NJM2903M
IC401	8-743-914-00	s IC BX-3914
IC402	8-759-106-02	s IC UPC4570G2
IC403	8-759-927-46	s IC SN74HC00ANS
IC404	8-759-300-71	s IC HD14053BFP
IC405	8-759-300-71	s IC HD14053BFP
IC451	8-759-800-72	s IC LA7205
IC481	8-759-800-72	s IC LA7205
IC501	8-759-908-17	s IC TL082CPS
IC551	8-759-908-17	s IC TL082CPS
IC552	8-759-908-92	s IC TL084CNS
IC553	8-759-700-07	s IC NJM2903M
IC554	8-759-700-07	s IC NJM2903M
IC601	8-759-908-17	s IC TL082CPS
IC602	8-759-008-67	s IC MC14066BF
IC651	8-759-908-17	s IC TL082CPS
IC652	8-759-008-67	s IC MC14066BF
IC901	8-759-701-79	s IC NJM7812FA
IC951	8-759-929-26	s IC TL431CPS
IC952	8-759-100-94	s IC UPC358G2
IC953	8-759-700-07	s IC NJM2903M
IC954	8-759-100-94	s IC UPC358G2

(DR-232A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
L600	1-412-533-21 s	INDUCTOR 47uH
L901	1-412-533-21 s	INDUCTOR 47uH
L902	1-412-533-21 s	INDUCTOR 47uH
L903	1-412-533-21 s	INDUCTOR 47uH
L951	1-408-519-00 s	COIL, CHOKE
PS1	▲ 1-532-846-21 s	LINK, IC 5.0A
PS2	▲ 1-532-843-21 s	LINK, IC
PS3	▲ 1-532-727-11 s	LINK, IC 0.25A
Q101	8-729-807-51 s	TRANSISTOR 2SD1623-R
Q102	8-729-101-07 s	TRANSISTOR 2SB798
Q103	8-729-376-84 s	TRANSISTOR 2SA768-G
Q201	8-729-807-51 s	TRANSISTOR 2SD1623-R
Q202	8-729-101-07 s	TRANSISTOR 2SB798
Q203	8-729-102-47 s	TRANSISTOR 2SA1141-Q
Q204	8-729-102-57 s	TRANSISTOR 2SC3012
Q205	8-729-159-65 s	TRANSISTOR 2SD596-DV5
Q206	8-729-162-45 s	TRANSISTOR 2SB624-BV5
Q207	8-729-102-47 s	TRANSISTOR 2SA1141-Q
Q208	8-729-102-57 s	TRANSISTOR 2SC3012
Q209	8-729-159-65 s	TRANSISTOR 2SD596-DV5
Q210	8-729-162-45 s	TRANSISTOR 2SB624-BV5
Q211	8-729-102-47 s	TRANSISTOR 2SA1141-Q
Q212	8-729-102-57 s	TRANSISTOR 2SC3012
Q401	8-729-905-18 s	TRANSISTOR DTC144EU
Q402	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q404	8-729-905-18 s	TRANSISTOR DTC144EU
Q501	8-729-159-65 s	TRANSISTOR 2SD596-DV5
Q502	8-729-141-83 s	TRANSISTOR 2SA473-Y
Q503	8-729-101-07 s	TRANSISTOR 2SB798
Q504	8-729-807-51 s	TRANSISTOR 2SD1623-R
Q505	8-729-376-84 s	TRANSISTOR 2SA768-G
Q551	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q951	8-729-117-32 s	TRANSISTOR 2SC4177
Q952	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q953	8-729-142-68 s	TRANSISTOR 2SJ143
Q954	8-729-101-07 s	TRANSISTOR 2SB798
R2	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R3	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R4	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R5	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R6	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R7	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R8	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R9	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R10	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R11	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R12	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R13	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R14	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R15	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R16	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R17	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R18	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R19	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R20	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R21	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R22	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R23	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R24	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R25	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R26	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R27	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R28	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R29	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R30	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R31	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R32	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R33	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R34	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R35	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R37	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R38	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R42	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R46	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R51	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R52	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R53	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R54	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R55	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R56	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R101	1-216-105-00 s	METAL, CHIP 220K 5% 1/10W
R102	1-215-863-11 s	METAL 100 5% 1W
R103	1-215-868-00 s	METAL 680 5% 1W
R104	1-215-867-00 s	METAL 470 5% 1W
R105	1-216-385-11 s	METAL, CHIP 0.47 5% 3W
R106	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R107	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R108	1-216-383-11 s	METAL, CHIP 0.33 5% 3W
R111	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R112	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R113	1-216-383-11 s	METAL, CHIP 0.33 5% 3W
R121	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R122	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R123	1-216-383-11 s	METAL, CHIP 0.33 5% 3W
R151	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R152	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R153	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R154	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R155	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R156	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R157	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R160	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R201	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R202	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R203	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R204	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R205	1-215-889-00 s	METAL 330 5% 2W
R206	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R207	1-215-889-00 s	METAL 330 5% 2W
R208	1-215-863-11 s	METAL 100 5% 1W
R209	1-215-863-11 s	METAL 100 5% 1W
R210	1-216-365-00 s	METAL, CHIP 0.47 5% 3W
R211	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R212	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R213	1-215-863-11 s	METAL 100 5% 1W
R214	1-215-863-11 s	METAL 100 5% 1W

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Ref. No. or Q' ty	Part No.	SPDescription
R215	1-216-365-00	s METAL, CHIP 0.47 5% 2W
R216	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R217	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R218	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R219	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R220	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R221	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R251	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R252	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R253	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R255	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R256	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R257	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R258	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R259	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R260	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R261	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R262	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R263	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R265	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R266	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R267	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R268	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R269	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R271	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R272	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R273	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R275	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R276	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R277	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R278	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R279	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R280	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R281	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R282	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R283	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R285	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R286	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R287	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R288	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R289	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R291	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R292	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R293	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R294	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R301	1-216-031-00	s METAL, CHIP 180 5% 1/10W
R302	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R303	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R304	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R305	1-249-383-11	s CARBON 1.5 5% 1/4W
R306	1-249-383-11	s CARBON 1.5 5% 1/4W
R307	1-249-383-11	s CARBON 1.5 5% 1/4W
R308	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R309	1-216-349-00	s METAL, CHIP 1 5% 1W
R310	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R311	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R312	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R314	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R315	1-216-295-00	s METAL, CHIP 0 5% 1/10W

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Ref. No. or Q' ty	Part No.	SPDescription
R324	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R325	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R326	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R327	1-216-103-00	s METAL, CHIP 180K 5% 1/10W
R328	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R329	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R330	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R331	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R332	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R333	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R341	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R342	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R343	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R344	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R401	1-208-801-11	s METAL 6.2K 0.5% 1/10W
R402	1-216-133-00	s METAL, CHIP 3.3M 5% 1/10W
R403	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R404	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R405	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R406	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R407	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R408	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R409	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R410	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R411	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R412	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R413	1-215-911-11	s METAL 100 5% 3W
R414	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R415	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R416	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R451	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R452	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R481	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R482	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R501	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R502	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R503	1-215-866-11	s METAL 330 5% 1W
R504	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R505	1-216-383-11	s METAL, CHIP 0.33 5% 3W
R506	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R507	1-215-863-11	s METAL 100 5% 1W
R508	1-215-863-11	s METAL 100 5% 1W
R509	1-216-365-00	s METAL, CHIP 0.47 5% 2W
R510	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R511	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R512	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R513	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R551	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R552	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R553	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R554	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R555	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R556	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R557	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R558	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R559	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R560	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R561	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R562	1-216-081-00	s METAL, CHIP 22K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R563	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R564	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R565	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R566	1-216-093-00 s	METAL, CHIP 68K 5% 1/10W
R567	1-216-093-00 s	METAL, CHIP 68K 5% 1/10W
R568	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R569	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R571	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R582	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R583	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R584	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R585	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R586	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R587	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R588	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R589	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R590	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R591	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R592	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R593	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R594	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R595	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R596	1-216-093-00 s	METAL, CHIP 68K 5% 1/10W
R597	1-216-093-00 s	METAL, CHIP 68K 5% 1/10W
R598	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R599	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R600	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R601	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R602	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R603	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R604	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R605	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R606	1-216-109-00 s	METAL, CHIP 330K 5% 1/10W
R607	1-216-109-00 s	METAL, CHIP 330K 5% 1/10W
R651	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R652	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R653	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R654	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R655	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R656	1-216-109-00 s	METAL, CHIP 330K 5% 1/10W
R657	1-216-109-00 s	METAL, CHIP 330K 5% 1/10W
R951	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R952	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R953	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R954	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R955	1-216-075-00 s	METAL, CHIP 12K 5% 1/10W
R956	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R957	1-216-113-00 s	METAL, CHIP 470K 5% 1/10W
R958	1-216-113-00 s	METAL, CHIP 470K 5% 1/10W
R959	1-216-115-00 s	METAL, CHIP 560K 5% 1/10W
R960	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R961	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R962	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R963	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R965	1-216-689-11 s	METAL, CHIP 39K 5% 1/10W
R966	1-216-689-11 s	METAL, CHIP 39K 5% 1/10W
R967	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R968	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R969	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R970	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R971	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R972	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R973	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R974	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R975	1-216-669-11 s	METAL, CHIP 5.6K 0.5% 1/10W
R976	1-207-612-00 s	WIREWOUND 0.1 10% 3W
R977	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R978	1-216-689-11 s	METAL, CHIP 39K 5% 1/10W
R979	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R980	1-216-689-11 s	METAL, CHIP 39K 5% 1/10W
R981	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W

DS-31 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-167-11 o	PRINTED CIRCUIT BOARD, DS-31
CN1	1-564-013-11 o	PIN, CONNECTOR 3P
IC1	8-759-729-03 s	IC NJM2903D
R1	1-215-456-00 s	METAL 30K 1% 1/4W
R2	1-215-437-00 s	METAL 4.7K 1% 1/4W
R3	1-215-419-00 s	METAL 820 1% 1/4W
R4	1-215-469-00 s	METAL 100K 1% 1/4W
R5	1-215-440-00 s	METAL 6.2K 1% 1/4W
R6	1-215-487-00 s	METAL 560K 1% 1/4W
R7	1-215-453-00 s	METAL 22K 1% 1/4W

DUS-668 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
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All of component parts on the DUS-668 board are supplied together when you order VP-33AP board.

1pc	1-648-773-11 s	PRINTED CIRCUIT BOARD, DUS-668
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HC-14C BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6717-635-B	o MOUNTED CIRCUIT BOARD, HC-14C
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C2	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C3	1-124-229-00	s ELECT 33uF 20% 10V
C4	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C5	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C6	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C7	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C8	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN550	1-566-766-11	o CONNECTOR 11P, MALE
CN551	1-566-760-11	s CONNECTOR ZR 5P, MALE
CN552	1-565-772-11	o CONNECTOR PS 10P, MALE
CN553	1-566-765-11	o PIN, CONNECTOR 10P, MALE
CN554	1-566-762-11	o PIN, CONNECTOR 7P, MALE
CN555	1-566-761-11	o PIN, CONNECTOR 6P, MALE
CP1	1-548-152-11	o HOUR METER, DIGITAL
D1	8-719-939-39	s LED GL-5HD8, RED
IC1	8-759-043-36	s IC MC68HC05N4-SC406673
IC2	8-759-926-64	s IC SN74HC367ANS
IC3	8-759-300-71	s IC HD14053BFP
PS1	Δ 1-532-839-11	s LINK, IC
PS2	Δ 1-532-839-11	s LINK, IC
Q1	8-729-924-56	s TRANSISTOR DTC123JU
Q2	8-729-924-56	s TRANSISTOR DTC123JU
Q3	8-729-924-56	s TRANSISTOR DTC123JU
Q4	8-729-924-56	s TRANSISTOR DTC123JU
Q5	8-729-924-56	s TRANSISTOR DTC123JU
R1	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R2	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R3	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R4	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R5	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R6	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R7	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R8	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R9	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R10	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R11	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R12	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R13	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R14	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R15	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R16	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R17	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R18	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R19	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R20	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R21	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R22	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R23	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R24	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R25	1-216-089-00	s METAL, CHIP 47K 5% 1/10W

(HC-14C BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R26	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R27	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R28	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R29	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R30	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R33	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R34	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R35	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R38	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R41	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R44	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R45	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R48	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R51	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R100	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R101	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R102	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R103	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R104	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R105	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R106	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R108	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R109	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R110	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R111	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R112	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R113	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R114	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R115	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R116	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R118	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R119	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R120	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R121	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R122	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R124	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R125	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R126	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R127	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R128	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R129	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R130	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R131	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R132	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R133	1-216-295-00	s METAL, CHIP 0 5% 1/10W
RV1	1-237-695-11	s RES, VAR, CARBON 5K
RV3	1-237-695-11	s RES, VAR, CARBON 5K
RV4	1-237-695-11	s RES, VAR, CARBON 5K
RV5	1-237-696-11	s RES, VAR, CARBON 5K
RV6	1-237-696-11	s RES, VAR, CARBON 5K
RV7	1-237-696-11	s RES, VAR, CARBON 5K
S1	1-572-839-11	s SWITCH, SLIDE
S2	1-572-837-11	s SWITCH, SLIDE
S7	1-554-909-11	s SWITCH, PUSH
S8	1-554-909-11	s SWITCH, PUSH
S9	1-572-837-11	s SWITCH, SLIDE
S10	1-572-838-11	s SWITCH, SLIDE
S11	1-572-837-11	s SWITCH, SLIDE

(HC-14C BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
S13	1-572-837-11 s	SWITCH, SLIDE
S14	1-572-837-11 s	SWITCH, SLIDE
S15	1-572-837-11 s	SWITCH, SLIDE
S16	1-554-949-11 s	SWITCH, SLIDE
X1	1-567-192-11 s	OSCILLATOR, CERAMIC 4.00MHz

KY-210A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
This board includes the DP-139A board.		
1pc	A-6717-621-B o	MOUNTED CIRCUIT BOARD, KY-210A
3pcs	3-660-828-00 o	HOLDER (9), PC BOARD
7pcs	3-668-124-00 o	HOLDER, LED
C1	1-124-907-11 s	ELECT 10uF 20% 50V
C2	1-124-907-11 s	ELECT 10uF 20% 50V
C6	1-126-101-11 s	ELECT 100uF 20% 16V
C7	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C8	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C9	1-124-907-11 s	ELECT 10uF 20% 50V
C10	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C12	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C13	1-124-907-11 s	ELECT 10uF 20% 50V
C14	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C16	1-163-104-00 s	CERAMIC, CHIP 30PF 5% 50V
C17	1-163-104-00 s	CERAMIC, CHIP 30PF 5% 50V
C20	1-124-907-11 s	ELECT 10uF 20% 50V
C21	1-124-907-11 s	ELECT 10uF 20% 50V
C22	1-124-907-11 s	ELECT 10uF 20% 50V
C23	1-124-907-11 s	ELECT 10uF 20% 50V
C24	1-124-907-11 s	ELECT 10uF 20% 50V
C25	1-124-907-11 s	ELECT 10uF 20% 50V
C26	1-124-907-11 s	ELECT 10uF 20% 50V
C27	1-124-907-11 s	ELECT 10uF 20% 50V
C30	1-163-257-11 s	CERAMIC, CHIP 180PF 5% 50V
C31	1-163-257-11 s	CERAMIC, CHIP 180PF 5% 50V
C32	1-163-257-11 s	CERAMIC, CHIP 180PF 5% 50V
C33	1-163-257-11 s	CERAMIC, CHIP 180PF 5% 50V
C47	1-124-907-11 s	ELECT 10uF 20% 50V
C48	1-124-477-11 s	ELECT 47uF 20% 16V
C50	1-163-025-11 s	CERAMIC, CHIP 0.001uF 50V
C51	1-163-025-11 s	CERAMIC, CHIP 0.001uF 50V
CN2	1-506-485-11 s	CONNECTOR 6P, MALE
CN590	1-559-261-21 s	CABLE, FLAT 10P
CN1003	1-535-761-11 o	WIRE, JUMPER (HIGH WINDING)
D1	8-719-104-34 s	DIODE 1S2835
D2	8-719-104-34 s	DIODE 1S2835
D4	8-719-109-57 s	DIODE RD2.4ES-B2
D5	8-719-109-57 s	DIODE RD2.4ES-B2
D6	8-719-109-57 s	DIODE RD2.4ES-B2
D7	8-719-109-57 s	DIODE RD2.4ES-B2
D8	8-719-109-57 s	DIODE RD2.4ES-B2
D9	8-719-109-57 s	DIODE RD2.4ES-B2
D10	8-719-109-57 s	DIODE RD2.4ES-B2
D11	8-719-104-34 s	DIODE 1S2835
D12	8-719-104-34 s	DIODE 1S2835
D13	8-719-104-34 s	DIODE 1S2835
D14	8-719-104-34 s	DIODE 1S2835
D23	8-719-104-34 s	DIODE 1S2835
D29	8-719-104-34 s	DIODE 1S2835
D30	8-719-104-34 s	DIODE 1S2835
D49	8-719-802-11 s	LED TLUG154, GRN
D55	8-719-939-39 s	LED GL5HD8, RED
D56	8-719-939-39 s	LED GL5HD8, RED
D57	8-719-802-11 s	LED TLUG154, GRN
D58	8-719-939-39 s	LED GL5HD8, RED
D59	8-719-802-11 s	LED TLUG154, GRN
D63	8-719-939-39 s	LED GL5HD8, RED

(KY-210A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
IC2	8-759-708-05	s IC NJM78L05A
IC3	8-759-500-43	s IC CXD8117P
IC4	8-759-501-52	s IC M50747H-250SP
IC5	8-759-645-16	s IC M54516P
IC6	8-759-645-16	s IC M54516P
IC7	8-759-645-16	s IC M54516P
IC8	8-759-708-05	s IC NJM78L05A
Q2	8-729-120-28	s TRANSISTOR 2SC1623
Q3	8-729-901-01	s TRANSISTOR DTC144EK
Q4	8-729-216-22	s TRANSISTOR 2SA1162
Q5	8-729-216-22	s TRANSISTOR 2SA1162
Q6	8-729-216-22	s TRANSISTOR 2SA1162
Q7	8-729-216-22	s TRANSISTOR 2SA1162
Q8	8-729-216-22	s TRANSISTOR 2SA1162
Q9	8-729-216-22	s TRANSISTOR 2SA1162
Q10	8-729-216-22	s TRANSISTOR 2SA1162
Q12	8-729-216-22	s TRANSISTOR 2SA1162
Q13	8-729-216-22	s TRANSISTOR 2SA1162
Q14	8-729-216-22	s TRANSISTOR 2SA1162
Q15	8-729-216-22	s TRANSISTOR 2SA1162
Q16	8-729-216-22	s TRANSISTOR 2SA1162
Q17	8-729-216-22	s TRANSISTOR 2SA1162
Q18	8-729-216-22	s TRANSISTOR 2SA1162
Q19	8-729-216-22	s TRANSISTOR 2SA1162
Q20	8-729-923-62	s TRANSISTOR DTA123JK
Q21	8-729-923-62	s TRANSISTOR DTA123JK
Q22	8-729-923-62	s TRANSISTOR DTA123JK
Q23	8-729-923-62	s TRANSISTOR DTA123JK
Q24	8-729-923-62	s TRANSISTOR DTA123JK
Q25	8-729-922-73	s TRANSISTOR DTC123JK
Q26	8-729-922-73	s TRANSISTOR DTC123JK
Q27	8-729-922-73	s TRANSISTOR DTC123JK
Q28	8-729-922-73	s TRANSISTOR DTC123JK
Q29	8-729-922-73	s TRANSISTOR DTC123JK
Q30	8-729-922-73	s TRANSISTOR DTC123JK
Q31	8-729-922-73	s TRANSISTOR DTC123JK
Q32	8-729-922-73	s TRANSISTOR DTC123JK
Q33	8-729-900-51	s TRANSISTOR DTA114TK
Q34	8-729-120-28	s TRANSISTOR 2SC1623
Q35	8-729-900-51	s TRANSISTOR DTA114TK
Q36	8-729-120-28	s TRANSISTOR 2SC1623
Q37	8-729-900-51	s TRANSISTOR DTA114TK
Q38	8-729-120-28	s TRANSISTOR 2SC1623
Q39	8-729-900-51	s TRANSISTOR DTA114TK
Q40	8-729-120-28	s TRANSISTOR 2SC1623
Q41	8-729-900-51	s TRANSISTOR DTA114TK
Q42	8-729-120-28	s TRANSISTOR 2SC1623
Q43	8-729-900-51	s TRANSISTOR DTA114TK
Q44	8-729-120-28	s TRANSISTOR 2SC1623
Q45	8-729-900-51	s TRANSISTOR DTA114TK
Q46	8-729-120-28	s TRANSISTOR 2SC1623
Q47	8-729-900-51	s TRANSISTOR DTA114TK
Q48	8-729-120-28	s TRANSISTOR 2SC1623
Q87	8-729-120-28	s TRANSISTOR 2SC1623
Q88	8-729-120-28	s TRANSISTOR 2SC1623
R5	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R6	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R7	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

(KY-210A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R8	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R9	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R10	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R13	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R14	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R15	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R16	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R17	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R18	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R19	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R20	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R21	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R22	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R23	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R24	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R25	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R30	1-247-811-31	s CARBON 150 5% 1/4W
R31	1-247-811-31	s CARBON 150 5% 1/4W
R32	1-247-811-31	s CARBON 150 5% 1/4W
R33	1-247-811-31	s CARBON 150 5% 1/4W
R34	1-247-811-31	s CARBON 150 5% 1/4W
R35	1-247-811-31	s CARBON 150 5% 1/4W
R36	1-247-811-31	s CARBON 150 5% 1/4W
R37	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R38	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R39	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R40	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R41	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R42	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R43	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R44	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R45	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R46	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R47	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R48	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R49	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R50	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R51	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R52	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R53	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R54	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R55	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R56	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R57	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R58	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R59	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R60	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R67	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R68	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R69	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R70	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R71	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R72	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R73	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R74	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R75	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R76	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W

(KY-210A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R77	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R78	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R79	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R80	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R81	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R82	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R83	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R84	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R85	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R86	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R87	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R88	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R89	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R90	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R91	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R92	1-249-410-11 s	CARBON 270 5% 1/4W
R93	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R94	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R95	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R103	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R104	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R106	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R107	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R109	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R110	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R112	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R113	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R115	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R116	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R121	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R122	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R124	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R125	1-216-043-00 s	METAL, CHIP 560 5% 1/10W
R148	1-216-027-00 s	METAL, CHIP 120 5% 1/10W
R159	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R160	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R161	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R162	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R163	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R170	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R171	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R172	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R173	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
S1	1-692-609-11 s	SWITCH, TACTILE, WITH LED
S2	1-692-609-21 s	SWITCH, TACTILE, WITH LED
S3	1-692-612-41 s	SWITCH, TACTILE, WITH LED
S4	1-692-612-31 s	SWITCH, TACTILE, WITH LED
S5	1-692-612-21 s	SWITCH, TACTILE, WITH LED
S6	1-692-612-11 s	SWITCH, TACTILE, WITH LED
S7	1-692-612-11 s	SWITCH, TACTILE, WITH LED
S24	1-516-995-00 s	SWITCH, LEVER SLIDE
S34	1-552-539-00 s	SWITCH, TACTILE
S35	1-552-539-00 s	SWITCH, TACTILE
X1	1-567-869-11 s	VIBRATOR, CERAMIC 9.83MHz

LP-57 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	3-171-508-04 o	HOLDER, LAMP
CN932	1-564-001-11 o	CONNECTOR 2P, MALE
D1	8-719-820-27 s	LED TLY256, YEL
D2	8-719-820-27 s	LED TLY256, YEL
D3	8-719-820-27 s	LED TLY256, YEL
D4	8-719-820-27 s	LED TLY256, YEL
D5	8-719-820-27 s	LED TLY256, YEL
D6	8-719-820-27 s	LED TLY256, YEL
D7	8-719-820-27 s	LED TLY256, YEL
D8	8-719-820-27 s	LED TLY256, YEL
D9	8-719-820-27 s	LED TLY256, YEL
D10	8-719-820-27 s	LED TLY256, YEL
R1	1-249-409-11 s	CARBON 220 5% 1/4W
R2	1-249-409-11 s	CARBON 220 5% 1/4W
R3	1-249-409-11 s	CARBON 220 5% 1/4W
R4	1-249-409-11 s	CARBON 220 5% 1/4W
R5	1-249-409-11 s	CARBON 220 5% 1/4W

MA-44A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6713-450-A	o MOUNTED CIRCUIT BOARD, MA-44A
C1	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C2	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C3	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C4	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C5	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C6	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C7	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C8	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C9	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C10	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C11	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C12	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C13	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C14	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C15	1-124-477-11	s ELECT 47uF 20% 16V
C16	1-124-477-11	s ELECT 47uF 20% 16V
C17	1-124-927-11	s ELECT 4.7uF 20% 50V
C18	1-124-927-11	s ELECT 4.7uF 20% 50V
C19	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C20	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C21	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C22	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C23	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C24	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C25	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C26	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C27	1-131-348-00	s TANTALUM 1.5uF 10% 20V
C28	1-131-348-00	s TANTALUM 1.5uF 10% 20V
C29	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C30	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C509	1-124-907-11	s ELECT 10uF 20% 50V
C510	1-124-925-11	s ELECT 2.2uF 20% 50V
C511	1-124-925-11	s ELECT 2.2uF 20% 50V
C512	1-124-907-11	s ELECT 10uF 20% 50V
C513	1-124-907-11	s ELECT 10uF 20% 50V
C514	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C515	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
CN406	1-569-343-11	s CONNECTOR, BOARD TO BOARD 21P
CN408	1-506-481-11	s PIN, CONNECTOR 2P
CN409	1-506-481-11	s PIN, CONNECTOR 2P
CN410	1-506-481-11	s PIN, CONNECTOR 2P
CN411	1-506-481-11	s PIN, CONNECTOR 2P
D1	8-719-123-82	s DIODE 1SS303
D2	8-719-123-82	s DIODE 1SS303
D3	8-719-123-82	s DIODE 1SS303
IC1	8-759-981-96	s IC RC4560D
IC2	8-759-145-57	s IC UPC4557C
IC3	8-759-145-57	s IC UPC4557C
IC4	8-759-140-53	s IC UPD4053BC
IC5	8-759-981-96	s IC RC4560D
IC503	8-759-701-59	s IC NJM7809FA
IC504	8-759-701-87	s IC NJM7909FA
IC505	8-759-603-69	s IC M51957BL
Q1	8-729-117-32	s TRANSISTOR 2SC4177
Q2	8-729-117-32	s TRANSISTOR 2SC4177
Q3	8-729-117-32	s TRANSISTOR 2SC4177

(MA-44A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
Q4	8-729-117-32	s TRANSISTOR 2SC4177
Q5	8-729-143-63	s TRANSISTOR 2SJ132
Q6	8-729-143-63	s TRANSISTOR 2SJ132
Q7	8-729-143-63	s TRANSISTOR 2SJ132
Q8	8-729-143-63	s TRANSISTOR 2SJ132
Q9	8-729-143-63	s TRANSISTOR 2SJ132
Q10	8-729-143-63	s TRANSISTOR 2SJ132
R1	1-216-089-91	s METAL, CHIP 47K 5% 1/10W
R2	1-216-089-91	s METAL, CHIP 47K 5% 1/10W
R3	1-216-089-91	s METAL, CHIP 47K 5% 1/10W
R4	1-216-089-91	s METAL, CHIP 47K 5% 1/10W
R5	1-216-089-91	s METAL, CHIP 47K 5% 1/10W
R6	1-216-089-91	s METAL, CHIP 47K 5% 1/10W
R7	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R8	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R9	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R10	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R11	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R12	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R13	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R14	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R15	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R16	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R17	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R18	1-216-107-00	s METAL, CHIP 270K 5% 1/10W
R19	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R20	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R21	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R22	1-216-105-00	s METAL, CHIP 220K 5% 1/10W
R23	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R24	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R25	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R26	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R27	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R28	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R29	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R30	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R31	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R32	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R33	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R34	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R35	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R36	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R37	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R38	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R39	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R40	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R41	1-216-095-00	s METAL, CHIP 82K 5% 1/10W
R42	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R43	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R44	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R45	1-216-095-00	s METAL, CHIP 82K 5% 1/10W
R46	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R47	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R48	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R49	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R50	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R51	1-216-121-00	s METAL, CHIP 1M 5% 1/10W

(MA-44A BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R52	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R53	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R54	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R55	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R56	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R57	1-216-083-00 s	METAL, CHIP 27K 5% 1/10W
R58	1-216-067-00 s	METAL, CHIP 5.6K 5% 1/10W
R59	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R60	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R61	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R62	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R501	1-216-089-91 s	METAL 47K 5% 1/10W
RV1	1-238-789-11 s	RES, ADJ, CERMET 50K
RV2	1-238-789-11 s	RES, ADJ, CERMET 50K

MB-322D BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-8276-480-A o	MOUNTED CIRCUIT BOARD, MB-322 (D)
C101	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C102	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
CN103	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN104	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN105	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN106	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN109	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN110	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN111	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN114	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN139	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN140	1-573-598-31 s	CONNECTOR, PHEC 100P, FEMALE
CN141	1-573-598-11 s	CONNECTOR, PHEC 100P, FEMALE
CN150	1-568-950-11 o	CONNECTOR 12P, MALE
CN151	1-568-950-11 o	CONNECTOR 12P, MALE
CN200	1-568-945-11 o	CONNECTOR 7P, MALE
CN202	1-568-948-11 o	CONNECTOR 10P, MALE
CN203	1-506-493-11 s	CONNECTOR 14P, MALE
CN204	1-568-949-11 o	CONNECTOR 11P, MALE
CN205	1-568-942-11 o	CONNECTOR 4P, MALE
CN206	1-568-944-11 o	CONNECTOR 6P, MALE
CN207	1-568-943-11 o	CONNECTOR 5P, MALE
CN212	1-506-471-11 s	CONNECTOR 6P, MALE
CN213	1-568-955-11 o	CONNECTOR 6P, MALE
CN214	1-506-469-11 s	CONNECTOR 4P, MALE
CN220	1-568-941-11 o	CONNECTOR 3P, MALE
CN221	1-565-879-11 s	CONNECTOR 7P, MALE
CN222	1-565-883-11 o	CONNECTOR 11P, MALE
CN223	1-565-882-11 o	CONNECTOR 10P, MALE
CN224	1-568-934-11 o	CONNECTOR 7P, MALE
CN225	1-568-935-11 o	CONNECTOR 8P, MALE
CN226	1-565-882-11 o	CONNECTOR 10P, MALE
CN260	1-564-209-00 o	CONNECTOR, IL-S 10P, MALE
CN262	1-690-104-11 s	CABLE, FLAT 64P
CN292	1-564-216-00 o	CONNECTOR 5P
CN293	1-564-915-11 o	CONNECTOR 7P
CN294	1-564-243-11 o	CONNECTOR 6P
PS1	Δ 1-532-840-21 s	LINK, IC PRF1250 1.25A

PC-62 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-171-12	o PRINTED CIRCUIT BOARD, PC-62
1pc	3-176-598-02	o SPRING, GROUND
CN934	1-565-038-11	s CONNECTOR, FPC 5P
PH1	8-719-939-05	s PHOTO INTERRUPTER GP1S54
PH2	8-719-939-05	s PHOTO INTERRUPTER GP1S54
PH3	8-719-939-05	s PHOTO INTERRUPTER GP1S54
R1	1-247-825-31	s CARBON 560 5% 1/4W
R2	1-247-825-31	s CARBON 560 5% 1/4W
R3	1-247-825-31	s CARBON 560 5% 1/4W

PD-56 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-162-12	o PRINTED CIRCUIT BOARD, PD-56
CN914	1-506-472-11	s CONNECTOR 7P, MALE
CN915	1-564-001-11	o CONNECTOR 2P, MALE
CN916	1-508-900-00	s CONNECTOR (M) 2P

PTC-39 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-633-548-13	o PRINTED CIRCUIT BOARD, PTC-39
1pc	2-124-699-02	o HOLDER, SENSOR
C1	1-162-875-11	s CERAMIC 68PF 5% 50V
C2	1-162-875-11	s CERAMIC 68PF 5% 50V
C3	1-126-154-11	s ELECT 47uF 20% 6.3V
C4	1-161-379-00	s CERAMIC 0.01uF 30% 16V
C5	1-161-379-00	s CERAMIC 0.01uF 30% 16V
CN1	1-564-005-11	o CONNECTOR 6P, MALE
DME1	8-745-001-00	s DM-211A
IC1	8-759-145-58	s IC UPC4558C
IC2	8-759-981-64	s IC LM2903P
IC3	8-719-985-75	s PHOTO INTERRUPTER GP1A53HR
IC4	8-719-985-74	s PHOTO INTERRUPTER GP1A52HR
Q1	8-729-900-33	s TRANSISTOR DTC144EF
R1	1-247-895-00	s CARBON 470K 5% 1/4W
R2	1-247-847-31	s CARBON 4.7K 5% 1/4W
R3	1-247-887-00	s CARBON 220K 5% 1/4W
R4	1-249-433-11	s CARBON 22K 5% 1/4W
R5	1-249-433-11	s CARBON 22K 5% 1/4W
R6	1-249-433-11	s CARBON 22K 5% 1/4W
R7	1-247-895-00	s CARBON 470K 5% 1/4W
R8	1-247-847-31	s CARBON 4.7K 5% 1/4W
R9	1-247-887-00	s CARBON 220K 5% 1/4W
R10	1-249-433-11	s CARBON 22K 5% 1/4W
R11	1-249-433-11	s CARBON 22K 5% 1/4W
R12	1-249-433-11	s CARBON 22K 5% 1/4W
R13	1-247-809-31	s CARBON 120 5% 1/4W
RV1	1-228-471-11	s RES, ADJ, CERMET 1K
RV2	1-228-471-11	s RES, ADJ, CERMET 1K

PTC-42 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-168-12	o PRINTED CIRCUIT BOARD, PTC-42
CN924	1-564-014-11	s CONNECTOR 4P, MALE
R1	1-249-409-11	s CARBON 220 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W

PTC-49 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-164-11	o PRINTED CIRCUIT BOARD, PTC-49
CN901	1-506-488-11	s CONNECTOR 9P, MALE
CN902	1-564-013-11	o CONNECTOR 3P, MALE
CN903	1-506-481-11	s CONNECTOR 2P, MALE
PH1	8-719-939-05	s PHOTO INTERRUPTER GP1S54
PH2	8-719-939-05	s PHOTO INTERRUPTER GP1S54
R1	1-249-409-11	s CARBON 220 5% 1/4W
R2	1-249-409-11	s CARBON 220 5% 1/4W

PTC-54 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-163-11	o PRINTED CIRCUIT BOARD, PTC-54
CN904	1-564-013-11	o CONNECTOR 3P, MALE
PH1	8-719-939-05	s PHOTO INTERRUPTER GP1S54

PTC-55 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-165-11	o PRINTED CIRCUIT BOARD, PTC-55
CN922	1-564-004-11	o CONNECTOR 5P, MALE
D1	8-719-938-07	s LED GL480, INFRARED
D2	8-719-938-07	s LED GL480, INFRARED
D3	8-719-938-07	s LED GL480, INFRARED
Q1	8-729-903-81	s PHOTO TRANSISTOR PT480
Q2	8-729-903-81	s PHOTO TRANSISTOR PT480
Q3	8-729-903-81	s PHOTO TRANSISTOR PT480

RM-82 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
2pcs	1-640-166-12	o PRINTED CIRCUIT BOARD, RM-82
CN923	1-563-233-11	o CONNECTOR, FPC 13P, FEMALE
CN926	1-506-469-11	s CONNECTOR 4P, MALE
CN927	1-506-468-11	s CONNECTOR 3P, MALE

RM-93A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-048-23	o PRINTED CIRCUIT BOARD, RM-93A
C700	1-124-122-11	s ELECT 100uF 20% 50V
C701	1-163-035-00	s CERAMIC, CHIP 0.047uF 50V
C702	1-163-035-00	s CERAMIC, CHIP 0.047uF 50V
CN700	1-506-472-11	s CONNECTOR 7P, MALE
CN705	1-573-566-11	s CONNECTOR, D-SUB 9P, FEMALE
CN710	1-566-765-11	o PIN, CONNECTOR 10P, MALE
CN715	1-764-259-11	s CONNECTOR, D-SUB 15P, MALE
CN720	1-508-900-00	s CONNECTOR (M) 2P
IC701	8-759-172-41	s IC L78M09T
IC702	8-759-173-37	s IC L79M09T
R700	1-215-909-11	s METAL 47 5% 3W

RP-57AP BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6727-375-A	o MOUNTED CIRCUIT BOARD, RP-57AP
1pc	3-171-456-02	o SHEET (S), CARD
1pc	3-171-485-02	o GUARD, EDGE
1pc	7-621-759-45	s +PSW, 2.6X6
1pc	4-352-844-01	s PIN, LEAD, COATING
1pc	1-535-894-11	o TAB (PC BOARD)
1pc	3-179-084-01	s LEVER (R), PC BOARD
1pc	3-179-085-01	s LEVER (L), PC BOARD
C11	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C12	1-124-584-00	s ELECT 100uF 20% 10V
C13	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C16	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C111	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C112	1-124-584-00	s ELECT 100uF 20% 10V
C113	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C116	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C211	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C212	1-124-584-00	s ELECT 100uF 20% 10V
C213	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C215	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C216	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C311	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C312	1-124-584-00	s ELECT 100uF 20% 10V
C313	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C315	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C316	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C701	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C702	1-124-477-11	s ELECT 47uF 20% 16V
C703	1-124-477-11	s ELECT 47uF 20% 16V
C704	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C705	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C706	1-124-477-11	s ELECT 47uF 20% 16V
C712	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C713	1-124-477-11	s ELECT 47uF 20% 16V
C714	1-124-477-11	s ELECT 47uF 20% 16V
C715	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C716	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C717	1-124-477-11	s ELECT 47uF 20% 16V
C718	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C719	1-124-477-11	s ELECT 47uF 20% 16V
C720	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C721	1-124-477-11	s ELECT 47uF 20% 16V
C722	1-124-477-11	s ELECT 47uF 20% 16V
C723	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C724	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C725	1-124-477-11	s ELECT 47uF 20% 16V
C801	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C802	1-126-101-11	s ELECT 100uF 20% 16V
C803	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C804	1-126-101-11	s ELECT 100uF 20% 16V
C805	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C811	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C812	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C815	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
CN1	1-506-468-11	o CONNECTOR 3P, MALE
CN2	1-506-468-11	o CONNECTOR 3P, MALE
CN101	1-506-468-11	o CONNECTOR 3P, MALE

(RP-57AP BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
CN102	1-506-468-11	o CONNECTOR 3P, MALE
CN114	1-573-600-21	s CONNECTOR, PHEC 100P, MALE
D701	8-719-123-82	s DIODE 1SS303
D702	8-719-123-82	s DIODE 1SS303
D703	8-719-123-85	s DIODE 1SS304
IC2	1-809-458-11	s HIC (PRE-AMP)
IC102	1-809-458-11	s HIC (PRE-AMP)
IC202	1-809-458-11	s HIC (PRE-AMP)
IC302	1-809-458-11	s HIC (PRE-AMP)
IC701	8-759-701-75	s IC NJM7805FA
IC703	8-759-168-20	s IC NJM78L09A
IC704	8-759-168-20	s IC NJM78L09A
IC705	8-759-701-84	s IC NJM7905FA
IC801	8-752-052-73	s IC CXA1451M
IC811	8-752-052-73	s IC CXA1451M
L701	1-412-533-21	s INDUCTOR 47uH
L703	1-412-533-21	s INDUCTOR 47uH
L704	1-412-533-21	s INDUCTOR 47uH
L801	1-410-482-31	s INDUCTOR 100uH
L802	1-410-482-31	s INDUCTOR 100uH
Q204	8-729-117-72	s TRANSISTOR 2SC4178
Q304	8-729-117-72	s TRANSISTOR 2SC4178
R19	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R20	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R24	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R25	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R26	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R28	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R119	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R120	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R124	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R125	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R126	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R127	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R219	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R220	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R222	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R223	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R224	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R225	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R226	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R228	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R319	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R320	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R322	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R323	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R324	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R325	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R326	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R327	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R801	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R802	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R811	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R812	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R901	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R902	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R903	1-216-295-00	s METAL, CHIP 0 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R904	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R905	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R906	1-216-295-00	s METAL, CHIP 0 5% 1/10W
RV4	1-238-804-11	s RES, ADJ, CERMET 50K
RV104	1-238-804-11	s RES, ADJ, CERMET 50K
RV204	1-238-804-11	s RES, ADJ, CERMET 50K
RV304	1-238-804-11	s RES, ADJ, CERMET 50K
T2	1-423-658-11	s TRANSFORMER, RF INPUT
T102	1-423-658-11	s TRANSFORMER, RF INPUT
T202	1-423-657-11	s TRANSFORMER, RF INPUT
T302	1-423-657-11	s TRANSFORMER, RF INPUT
TR2	8-766-000-18	s TRANSISTOR 2SK613-24-T8
TR3	8-766-000-18	s TRANSISTOR 2SK613-24-T8

SE-186 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
2pcs	1-646-129-11	o PRINTED CIRCUIT BOARD, SE-186
2pcs	1-807-683-11	s RESISTOR ELEMENT
C1	1-126-101-11	s ELECT 100uF 20% 16V

SS-48P BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6717-637-A	o MOUNTED CIRCUIT BOARD, SS-48P
1pc	3-171-453-03	o PLATE (L), SHIELD, CARD
1pc	3-171-454-02	o SHEET (L), CARD
1pc	7-621-759-45	s +PSW, 2.6X6
1pc	3-179-084-01	s LEVER (R), PC BOARD
1pc	3-179-085-01	s LEVER (L), PC BOARD
C1	1-163-091-00	s CERAMIC, CHIP 8PF 50V
C2	1-163-091-00	s CERAMIC, CHIP 8PF 50V
C3	1-131-347-00	s TANTALUM 1uF 10% 35V
C4	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C5	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C6	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C7	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C9	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C10	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C11	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C12	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C14	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C15	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C101	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C102	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C103	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C104	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C105	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C106	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C107	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C108	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C109	1-163-110-00	s CERAMIC, CHIP 51PF 5% 50V
C116	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C117	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C118	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C119	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C120	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C121	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C126	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C127	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C301	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C302	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C304	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C401	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C402	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C403	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C404	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C405	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C406	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C407	1-131-342-00	s TANTALUM 0.15uF 10% 35V
C408	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C409	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C410	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C411	1-163-235-11	s CERAMIC, CHIP 22PF 5% 50V
C412	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C413	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C414	1-124-907-11	s ELECT 10uF 20% 50V
C415	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C416	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C417	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C418	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C423	1-124-907-11	s ELECT 10uF 20% 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C424	1-124-907-11 s	ELECT 10uF 20% 50V
C425	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C426	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C427	1-163-137-00 s	CERAMIC, CHIP 680PF 5% 50V
C450	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C451	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C452	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C453	1-124-907-11 s	ELECT 10uF 20% 50V
C454	1-124-141-00 s	ELECT 330uF 20% 10V
C456	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C457	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C458	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C459	1-163-135-00 s	CERAMIC, CHIP 560PF 5% 50V
C460	1-163-989-11 s	CERAMIC, CHIP 0.033uF 10% 25V
C501	1-163-014-00 s	CERAMIC, CHIP 0.0027uF 10% 50V
C502	1-131-351-00 s	TANTALUM 4.7uF 10% 35V
C503	1-131-345-00 s	TANTALUM 0.47uF 10% 35V
C504	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C505	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C506	1-130-475-00 s	MYLAR 0.0022uF 5% 50V
C507	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C508	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V
C509	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V
C510	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V
C511	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V
C512	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C513	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C515	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C516	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C518	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C519	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C520	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C521	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C522	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C523	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C524	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C601	1-124-477-11 s	ELECT 47uF 20% 16V
C602	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C603	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C604	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C605	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C606	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C607	1-124-477-11 s	ELECT 47uF 20% 16V
C608	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C609	1-124-477-11 s	ELECT 47uF 20% 16V
C610	1-124-477-11 s	ELECT 47uF 20% 16V
C611	1-124-477-11 s	ELECT 47uF 20% 16V
C612	1-124-477-11 s	ELECT 47uF 20% 16V
C613	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C614	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C616	1-131-347-00 s	TANTALUM 1uF 10% 35V
C617	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C619	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C620	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C621	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C622	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C623	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C624	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C625	1-126-157-11 s	ELECT 10uF 20% 16V

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
C626	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C627	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C628	1-163-227-11 s	CERAMIC, CHIP 10PF 50V
C629	1-163-227-11 s	CERAMIC, CHIP 10PF 50V
C630	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C631	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C632	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C633	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C634	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C635	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C636	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C637	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C638	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C639	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C640	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C642	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C643	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C644	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C645	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C646	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C647	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C648	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C649	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C650	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C701	1-163-229-11 s	CERAMIC, CHIP 12PF 5% 50V
C702	1-163-229-11 s	CERAMIC, CHIP 12PF 5% 50V
C703	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C704	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C705	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C706	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C707	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C708	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C709	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C710	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C711	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C712	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C713	1-163-229-11 s	CERAMIC, CHIP 12PF 5% 50V
C714	1-163-229-11 s	CERAMIC, CHIP 12PF 5% 50V
C715	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C716	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C718	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C720	1-163-017-00 s	CERAMIC, CHIP 0.0047uF 10% 50V
C801	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C803	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C804	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C805	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C806	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C807	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C810	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C811	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C813	1-164-161-11 s	CERAMIC 0.0022uF 10% 50V
C814	1-164-161-11 s	CERAMIC 0.0022uF 10% 50V
C815	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C818	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C820	1-124-903-11 s	ELECT 1uF 20% 50V
C822	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C824	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C826	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SPDescription
CN1	1-506-484-11 s	CONNECTOR 5P, MALE
CN139	1-573-600-21 s	CONNECTOR, PHEC (PLUG) 100P, MALE
CN140	1-573-600-21 s	CONNECTOR, PHEC (PLUG) 100P, MALE
CN141	1-573-600-21 s	CONNECTOR, PHEC (PLUG) 100P, MALE
CNI7	1-526-660-21 s	SOCKET, IC 32P
CNI607	1-526-660-21 s	SOCKET, IC 32P
COP1	1-565-413-11 o	PLUG, SHORTING 2P
COP2	1-565-413-11 o	PLUG, SHORTING 2P
COP3	1-565-413-11 o	PLUG, SHORTING 2P
COP4	1-565-413-11 o	PLUG, SHORTING 2P
COR1	1-691-246-11 o	CONNECTOR 12P, MALE
CV401	1-141-390-11 s	CAP, TRIMMER 90PF
CV402	1-141-245-00 s	TRIMMER, CERAMIC 30PF
D101	8-719-941-23 s	DIODE DA204U
D102	8-719-941-23 s	DIODE DA204U
D401	8-719-941-23 s	DIODE DA204U
D402	8-719-941-23 s	DIODE DA204U
D403	8-719-941-23 s	DIODE DA204U
D404	8-719-941-23 s	DIODE DA204U
D405	8-719-941-23 s	DIODE DA204U
D406	8-719-941-23 s	DIODE DA204U
D601	8-719-941-23 s	DIODE DA204U
D602	8-719-941-23 s	DIODE DA204U
D603	8-719-941-23 s	DIODE DA204U
D604	8-719-941-23 s	DIODE DA204U
D605	8-719-941-23 s	DIODE DA204U
D606	8-719-941-23 s	DIODE DA204U
D607	8-719-941-23 s	DIODE DA204U
D608	8-719-941-23 s	DIODE DA204U
D609	8-719-941-23 s	DIODE DA204U
D610	8-719-941-23 s	DIODE DA204U
D611	8-719-941-23 s	DIODE DA204U
D612	8-719-941-23 s	DIODE DA204U
D613	8-719-941-23 s	DIODE DA204U
D614	8-719-941-23 s	DIODE DA204U
D615	8-719-941-23 s	DIODE DA204U
D616	8-719-123-82 s	DIODE 1SS303
D701	8-719-938-72 s	DIODE SB01-05CP
D702	8-719-941-23 s	DIODE DA204U
D703	8-719-941-23 s	DIODE DA204U
D801	8-719-941-23 s	DIODE DA204U
IC1	8-759-151-97 s	IC UPD70320GJ-8-5BG
IC2	8-759-926-77 s	IC SN74HC541ANS
IC3	8-759-925-74 s	IC TC74HC04ANS
IC4	8-759-603-32 s	IC M51958BL
IC5	8-759-043-34 s	IC CXD8310M
IC6	8-752-352-61 s	IC MS62256CLL-10FC
IC7	8-759-270-97 s	IC C010-PW2000SY-V303
IC8	8-759-925-90 s	IC SN74HC74ANS
IC10	8-759-925-85 s	IC SN74HC32ANS
IC11	8-759-925-76 s	IC SN74HC08ANS
IC15	8-759-925-80 s	IC SN74HC14ANS
IC101	8-759-109-04 s	IC UPD7201AC
IC102	8-759-009-10 s	IC MC14069UBF
IC103	8-759-926-17 s	IC SN74HC153ANS
IC104	8-759-925-85 s	IC SN74HC32ANS
IC105	8-759-926-30 s	IC AM26LS30PC

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Ref. No. or Q'ty	Part No.	SPDescription
IC106	8-759-926-32 s	IC AM26LS32PC
IC107	8-759-926-30 s	IC AM26LS30PC
IC301	8-759-095-41 s	IC CXD8176AQ
IC302	8-759-938-68 s	IC CXD1095Q
IC303	8-759-054-54 s	IC SRM2016M10
IC401	8-759-095-41 s	IC CXD8176AQ
IC402	8-759-043-35 s	IC CXD8311Q
IC403	8-759-099-99 s	IC TMP91C640N-2306
IC404	8-759-009-51 s	IC MC14538BF
IC405	8-759-500-93 s	IC MB90061-111
IC406	8-759-054-54 s	IC SRM2016M10
IC407	8-759-926-77 s	IC SN74HC541ANS
IC408	8-759-708-05 s	IC NJM78L05A
IC410	8-759-700-43 s	IC NJM4558M
IC411	8-759-908-17 s	IC TL082CPS
IC412	8-759-700-45 s	IC NJM4556M-A
IC413	8-759-700-07 s	IC NJM2903M
IC414	8-759-927-46 s	IC SN74HC00ANS
IC415	8-759-908-17 s	IC TL082CPS
IC501	8-759-944-79 s	IC CXD1132Q
IC502	8-759-925-76 s	IC SN74HC08ANS
IC504	8-759-925-85 s	IC SN74HC32ANS
IC505	8-759-009-51 s	IC MC14538BF
IC506	8-759-300-71 s	IC HD14053BFP
IC507	8-759-009-02 s	IC MC14046BF
IC508	8-759-925-76 s	IC SN74HC08ANS
IC510	8-759-926-18 s	IC SN74HC157ANS
IC511	8-759-938-68 s	IC CXD1095Q
IC514	8-759-927-29 s	IC SN74HC04ANS
IC601	8-759-100-94 s	IC UPC358G2
IC602	8-759-009-05 s	IC MC14051BF
IC603	8-759-100-94 s	IC UPC358G2
IC604	8-759-323-88 s	IC HD6435328RA00F
IC605	8-759-925-76 s	IC SN74HC08ANS
IC606	8-759-925-85 s	IC SN74HC32ANS
IC607	8-759-189-01 s	IC C010-PW2000SV-V240
IC608	8-759-926-11 s	IC SN74HC138ANS
IC609	8-759-926-11 s	IC SN74HC138ANS
IC610	8-759-925-79 s	IC SN74HC11ANS
IC611	8-759-925-83 s	IC SN74HC27ANS
IC612	8-759-054-54 s	IC SRM2016M10
IC613	8-759-925-74 s	IC TC74HC04ANS
IC615	8-759-938-68 s	IC CXD1095Q
IC616	8-759-300-71 s	IC HD14053BFP
IC618	8-759-926-77 s	IC SN74HC541ANS
IC619	8-759-926-77 s	IC SN74HC541ANS
IC620	8-759-926-49 s	IC SN74HC245ANS
IC621	8-759-300-71 s	IC HD14053BFP
IC622	8-759-009-51 s	IC MC14538BF
IC701	8-752-343-05 s	IC CXD2202Q
IC702	8-759-300-71 s	IC HD14053BFP
IC703	8-759-239-23 s	IC TC74HC86AF
IC704	8-759-700-07 s	IC NJM2903M
IC706	8-759-095-41 s	IC CXD8176AQ
IC707	8-759-054-54 s	IC SRM2016M10
IC709	8-759-925-76 s	IC SN74HC08ANS
IC710	8-752-852-92 s	IC CXP80116-891Q
IC711	8-759-100-95 s	IC UPC324G2
IC801	8-759-100-95 s	IC UPC324G2

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Ref. No. or Q'ty	Part No.	SPDescription
IC802	8-759-141-05	s IC UPC4574G2
IC803	8-759-008-67	s IC MC14066BF
IC804	8-759-908-17	s IC TL082CPS
IC805	8-759-710-28	s IC NJM4565M-A
IC806	8-759-009-51	s IC MC14538BF
IC807	8-759-938-68	s IC CXD1095Q
IC808	8-759-908-17	s IC TL082CPS
IC809	8-759-925-90	s IC SN74HC74ANS
IC810	8-759-700-07	s IC NJM2903M
L401	1-410-464-11	s INDUCTOR 3.3uH
L602	1-412-533-21	s INDUCTOR 47uH
L603	1-412-533-21	s INDUCTOR 47uH
Q401	8-729-905-12	s TRANSISTOR DTA144EU
Q402	8-729-117-32	s TRANSISTOR 2SC4177
Q403	8-729-209-07	s TRANSISTOR 2SC4213-B
Q404	8-729-905-12	s TRANSISTOR DTA144EU
Q405	8-729-209-07	s TRANSISTOR 2SC4213-B
Q406	8-729-117-72	s TRANSISTOR 2SC4178
Q407	8-729-117-72	s TRANSISTOR 2SC4178
Q408	8-729-209-07	s TRANSISTOR 2SC4213-B
Q409	8-729-209-07	s TRANSISTOR 2SC4213-B
Q410	8-729-905-18	s TRANSISTOR DTC144EU
Q411	8-729-109-44	s TRANSISTOR 2SK94-X4
Q412	8-729-117-32	s TRANSISTOR 2SC4177
Q604	8-729-106-68	s TRANSISTOR 2SD1615A-GP
Q605	8-729-106-60	s TRANSISTOR 2SB1115A
Q606	8-729-117-72	s TRANSISTOR 2SC4178
Q701	8-729-905-18	s TRANSISTOR DTC144EU
Q702	8-729-905-18	s TRANSISTOR DTC144EU
Q703	8-729-117-32	s TRANSISTOR 2SC4177
Q704	8-729-117-32	s TRANSISTOR 2SC4177
Q705	8-729-117-32	s TRANSISTOR 2SC4177
Q706	8-729-117-32	s TRANSISTOR 2SC4177
Q707	8-729-117-32	s TRANSISTOR 2SC4177
Q708	8-729-905-18	s TRANSISTOR DTC144EU
Q709	8-729-905-18	s TRANSISTOR DTC144EU
Q710	8-729-905-18	s TRANSISTOR DTC144EU
Q711	8-729-905-18	s TRANSISTOR DTC144EU
Q801	8-729-905-18	s TRANSISTOR DTC144EU
Q802	8-729-209-07	s TRANSISTOR 2SC4213-B
Q803	8-729-209-07	s TRANSISTOR 2SC4213-B
Q805	8-729-905-18	s TRANSISTOR DTC144EU
R1	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R2	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R3	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R4	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R5	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R6	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R7	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R8	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R9	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R10	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R13	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R14	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R15	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R16	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R17	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R18	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R19	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R20	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R21	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R22	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R23	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R24	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R25	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R26	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R27	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R28	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R29	1-208-811-11	s METAL 16K 0.5% 1/10W
R30	1-216-688-11	s METAL, CHIP 36K 0.5% 1/10W
R51	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R52	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R53	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R54	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R55	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R56	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R57	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R58	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R59	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R60	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R61	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R62	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R63	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R64	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R65	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R67	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R68	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R69	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R70	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R71	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R72	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R73	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R74	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R75	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R101	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R102	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R103	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R104	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R105	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R106	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R107	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R108	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R109	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R111	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R112	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R113	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R114	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R115	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R116	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R117	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R118	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R119	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R120	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R121	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R122	1-216-077-00	s METAL, CHIP 15K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R123	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R124	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R125	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R301	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R302	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R303	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R304	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R305	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R306	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R307	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R308	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R309	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R310	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R311	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R312	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R313	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R314	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R315	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R316	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R319	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R320	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R321	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R323	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R324	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R325	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R330	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R333	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R334	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R335	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R336	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R337	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R338	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R339	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R340	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R341	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R342	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R343	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R400	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R401	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R418	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R419	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R420	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R421	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R422	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R423	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R424	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R425	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R426	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R427	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R428	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R429	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R430	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R431	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R432	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R433	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R434	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R435	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R436	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R437	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R438	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R439	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R440	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R441	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R442	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R443	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R444	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R445	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R446	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R447	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R448	1-216-648-11	s METAL, CHIP 750 0.5% 1/10W
R449	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R450	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R451	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R452	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R453	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R454	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R456	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R457	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R458	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R459	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R460	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R461	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R462	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R463	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R464	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R465	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R466	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R467	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R468	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R469	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R470	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R471	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R472	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R473	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R474	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R475	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R476	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R477	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R478	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R479	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R480	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R481	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R482	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R483	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R484	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R485	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R486	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R487	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R488	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R489	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R490	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R491	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R492	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R493	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R494	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R495	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R496	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R497	1-216-295-00	s METAL, CHIP 0 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R498	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R499	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R501	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R503	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R504	1-216-117-00 s	METAL, CHIP 680K 5% 1/10W
R507	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R508	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R509	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R510	1-216-689-11 s	METAL, CHIP 39K 0.50% 1/10W
R511	1-216-069-00 s	METAL, CHIP 6.8K 5% 1/10W
R512	1-216-689-11 s	METAL, CHIP 39K 0.50% 1/10W
R513	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R514	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R515	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R516	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R517	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R518	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R519	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R521	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R522	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R523	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R524	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R525	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R526	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R527	1-216-689-11 s	METAL, CHIP 39K 5% 1/10W
R528	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R529	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R530	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R531	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R532	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R533	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R534	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R535	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R536	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R537	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R538	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R539	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R541	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R542	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R543	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R544	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R545	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R546	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R547	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R548	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R549	1-216-089-91 s	METAL, CHIP 47K 5% 1/10W
R601	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R602	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R603	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R604	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R605	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R606	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R607	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R608	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R609	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R610	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R611	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R612	1-216-109-00 s	METAL, CHIP 330K 5% 1/10W
R613	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R614	1-216-109-00 s	METAL, CHIP 330K 5% 1/10W
R615	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R616	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R617	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R618	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R619	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R620	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R621	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R622	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R624	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R626	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R627	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R629	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R630	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R631	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R632	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R634	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R635	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R636	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R637	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R638	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R639	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R640	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R641	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R642	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R643	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R644	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R646	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R647	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R648	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R649	1-216-105-00 s	METAL, CHIP 220K 5% 1/10W
R650	1-216-105-00 s	METAL, CHIP 220K 5% 1/10W
R651	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R653	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R654	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R655	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R656	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R657	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R658	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R661	1-216-071-00 s	METAL, CHIP 8.2K 5% 1/10W
R662	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R663	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R664	1-216-029-00 s	METAL, CHIP 150 5% 1/10W
R668	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R669	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R670	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R671	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R672	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R673	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R674	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R675	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R676	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R677	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R678	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R679	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R680	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R701	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R702	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R703	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R823	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R825	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R826	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R827	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R828	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R829	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R830	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R831	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R832	1-216-105-00 s	METAL, CHIP 220K 5% 1/10W
R833	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R836	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R837	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R838	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R839	1-216-001-00 s	METAL, CHIP 10 5% 1/10W
R840	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R841	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R842	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R843	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R844	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R845	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R846	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R847	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R848	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R849	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R850	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R851	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R852	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R853	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R854	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R855	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R856	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R857	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R858	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R859	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R860	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R861	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R862	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R863	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R864	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R865	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R866	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R867	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R868	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R869	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R870	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R871	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R872	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R873	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R874	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R875	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R876	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R877	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R878	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R879	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R880	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R881	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R882	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R883	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R900	1-216-295-00 s	METAL, CHIP 0 5% 1/10W

(SS-48P BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
S1	1-553-812-00 s	SWITCH, PUSH
S2	1-570-623-11 s	SWITCH, DIP 8-CKT
S302	1-553-812-00 s	SWITCH, PUSH
S303	1-553-812-00 s	SWITCH, PUSH
S304	1-553-812-00 s	SWITCH, PUSH
S601	1-570-623-11 s	SWITCH, DIP 8-CKT
S602	1-553-812-00 s	SWITCH, PUSH
X1	1-577-076-11 s	VIBRATOR, CRYSTAL 16.000MHz
X101	1-567-870-11 s	VIBRATOR, CERAMIC 614KHz
X401	1-567-132-21 s	VIBLATOR, CERAMIC 8.00MHz
X402	1-579-458-11 s	VIBRATOR, CRYSTAL 17.734475MHz
X501	1-567-867-11 s	VIBRATOR, CRYSTAL 14.500MHz
X601	1-577-121-11 s	VIBRATOR, CRYSTAL 20.0MHz
X701	1-577-121-11 s	VIBRATOR, CRYSTAL 20.0MHz
X702	1-577-076-11 s	VIBRATOR, CRYSTAL 16.000MHz

SW-444A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-043-21 o	PRINTED CIRCUIT BOARD, SW-444A
1pc	3-171-416-01 o	HOLDER, LED
1pc	3-717-672-01 o	STOPPER, KY
C1	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
CN509	1-568-951-11 o	PIN, CONNECTOR 2P
CN510	1-568-934-11 o	PIN, CONNECTOR 7P
CN511	1-568-951-91 o	PIN, CONNECTOR 2P
CN512	1-566-761-11 o	PIN, CONNECTOR 6P
CN513	1-506-481-11 s	PIN, CONNECTOR 2P
D1	8-719-820-28 s	LED TLG256, GRN
D2	8-719-820-28 s	LED TLG256, GRN
D3	8-719-820-28 s	LED TLG256, GRN
D4	8-719-820-28 s	LED TLG256, GRN
D5	8-719-820-28 s	LED TLG256, GRN
D6	8-719-820-27 s	LED TLY256, GRN
D7	8-719-820-27 s	LED TLY256, GRN
R1	1-249-411-11 s	CARBON 330 5% 1/4W
R2	1-249-409-11 s	CARBON 220 5% 1/4W
R3	1-249-411-11 s	CARBON 330 5% 1/4W
R4	1-249-409-11 s	CARBON 220 5% 1/4W
R5	1-249-411-11 s	CARBON 330 5% 1/4W
SW1	1-516-995-00 s	SWITCH, LEVER SLIDE
SW4	1-516-961-00 s	SWITCH, LEVER SLIDE

TBC-18P BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6727-378-B	o MOUNTED CIRCUIT BOARD, TBC-18P
1pc	3-171-453-03	o PLATE (L), SHIELD, CARD
1pc	3-171-454-02	o SHEET (L), CARD
1pc	7-621-759-45	s +PSW, 2.6X6
3pcs	1-750-484-11	s BUSBAR
1pc	3-179-084-01	s LEVER (R), PC BOARD
1pc	3-179-085-01	s LEVER (L), PC BOARD
C1	1-126-101-11	s ELECT 100uF 20% 16V
C2	1-126-101-11	s ELECT 100uF 20% 16V
C3	1-126-101-11	s ELECT 100uF 20% 16V
C4	1-126-101-11	s ELECT 100uF 20% 16V
C5	1-126-101-11	s ELECT 100uF 20% 16V
C6	1-126-101-11	s ELECT 100uF 20% 16V
C7	1-126-101-11	s ELECT 100uF 20% 16V
C8	1-126-101-11	s ELECT 100uF 20% 16V
C9	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C10	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C11	1-126-101-11	s ELECT 100uF 20% 16V
C12	1-126-101-11	s ELECT 100uF 20% 16V
C13	1-126-101-11	s ELECT 100uF 20% 16V
C14	1-126-101-11	s ELECT 100uF 20% 16V
C15	1-126-101-11	s ELECT 100uF 20% 16V
C16	1-126-101-11	s ELECT 100uF 20% 16V
C17	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C18	1-126-101-11	s ELECT 100uF 20% 16V
C19	1-126-101-11	s ELECT 100uF 20% 16V
C20	1-126-101-11	s ELECT 100uF 20% 16V
C100	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C101	1-124-477-11	s ELECT 47uF 20% 16V
C102	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C103	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C104	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C105	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C106	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C107	1-124-477-11	s ELECT 47uF 20% 16V
C108	1-163-035-00	s CERAMIC, CHIP 0.047uF 50V
C109	1-124-903-11	s ELECT 1uF 20% 50V
C110	1-124-907-11	s ELECT 10uF 20% 50V
C119	1-124-477-11	s ELECT 47uF 20% 16V
C120	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C121	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C122	1-124-477-11	s ELECT 47uF 20% 16V
C124	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C126	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C127	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C128	1-126-176-11	s ELECT 220uF 20% 10V
C129	1-124-477-11	s ELECT 47uF 20% 16V
C130	1-124-477-11	s ELECT 47uF 20% 16V
C131	1-126-101-11	s ELECT 100uF 20% 16V
C132	1-124-907-11	s ELECT 10uF 20% 50V
C200	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C201	1-124-477-11	s ELECT 47uF 20% 16V
C202	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C203	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C204	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C205	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C206	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C207	1-124-477-11	s ELECT 47uF 20% 16V

(TBC-18 BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
C208	1-163-035-00	s CERAMIC, CHIP 0.047uF 50V
C209	1-124-903-11	s ELECT 1uF 20% 50V
C210	1-124-907-11	s ELECT 10uF 20% 50V
C219	1-124-477-11	s ELECT 47uF 20% 16V
C221	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C222	1-124-477-11	s ELECT 47uF 20% 16V
C224	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C225	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C226	1-126-176-11	s ELECT 220uF 20% 10V
C227	1-124-477-11	s ELECT 47uF 20% 16V
C228	1-124-477-11	s ELECT 47uF 20% 16V
C229	1-124-907-11	s ELECT 10uF 20% 50V
C231	1-126-101-11	s ELECT 100uF 20% 16V
C300	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C302	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C303	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C304	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C305	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C306	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C307	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C308	1-124-903-11	s ELECT 1uF 20% 50V
C309	1-124-903-11	s ELECT 1uF 20% 50V
C310	1-124-927-11	s ELECT 4.7uF 20% 50V
C311	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C312	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C313	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C314	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C315	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C316	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C318	1-124-477-11	s ELECT 47uF 20% 16V
C319	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C320	1-124-477-11	s ELECT 47uF 20% 16V
C321	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C322	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C323	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C324	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C325	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C326	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C327	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C328	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C329	1-164-004-11	s CERAMIC 0.1uF 10% 25V
C330	1-126-101-11	s ELECT 100uF 20% 16V
C331	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C333	1-124-907-11	s ELECT 10uF 20% 50V
C334	1-124-925-11	s ELECT 2.2uF 20% 50V
C335	1-164-489-11	s CERAMIC 0.22uF 10% 16V
C336	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C337	1-124-927-11	s ELECT 4.7uF 20% 50V
C338	1-164-489-11	s CERAMIC 0.22uF 10% 16V
C339	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C340	1-124-477-11	s ELECT 47uF 20% 16V
C341	1-124-477-11	s ELECT 47uF 20% 16V
C342	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C344	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C345	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C346	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C347	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C348	1-124-477-11	s ELECT 47uF 20% 16V
C349	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C350	1-124-477-11 s	ELECT 47uF 20% 16V
C351	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C352	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C353	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C357	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C358	1-124-925-11 s	ELECT 2.2uF 20% 50V
C359	1-124-927-11 s	ELECT 4.7uF 20% 50V
C360	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C361	1-124-477-11 s	ELECT 47uF 20% 16V
C362	1-124-477-11 s	ELECT 47uF 20% 16V
C363	1-124-477-11 s	ELECT 47uF 20% 16V
C364	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C365	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C366	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C371	1-124-477-11 s	ELECT 47uF 20% 16V
C372	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C373	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C374	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C375	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C376	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V
C377	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C378	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C379	1-126-101-11 s	ELECT 100uF 20% 16V
C380	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C381	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C382	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C383	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C384	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C385	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C400	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C401	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C402	1-163-245-11 s	CERAMIC, CHIP 56PF 5% 50V
C403	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C404	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C405	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C406	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C407	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C408	1-124-903-11 s	ELECT 1uF 20% 50V
C410	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C411	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C412	1-124-477-11 s	ELECT 47uF 20% 16V
C414	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C415	1-163-263-11 s	CERAMIC, CHIP 330PF 5% 50V
C417	1-163-106-00 s	CERAMIC, CHIP 36PF 5% 50V
C418	1-163-120-00 s	CERAMIC, CHIP 130PF 5% 50V
C419	1-163-263-11 s	CERAMIC, CHIP 330PF 5% 50V
C420	1-124-477-11 s	ELECT 47uF 20% 16V
C421	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C422	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C423	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C424	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C426	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C427	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C428	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C429	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C430	1-126-101-11 s	ELECT 100uF 20% 16V
C431	1-124-907-11 s	ELECT 10uF 20% 50V
C432	1-124-925-11 s	ELECT 2.2uF 20% 50V
C433	1-164-489-11 s	CERAMIC 0.22uF 10% 16V

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Ref. No. or Q'ty	Part No.	SPDescription
C434	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C435	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C436	1-124-477-11 s	ELECT 47uF 20% 16V
C437	1-124-477-11 s	ELECT 47uF 20% 16V
C438	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C440	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V
C441	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C442	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C443	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C444	1-124-477-11 s	ELECT 47uF 20% 16V
C445	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C446	1-124-477-11 s	ELECT 47uF 20% 16V
C447	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C448	1-124-477-11 s	ELECT 47uF 20% 16V
C449	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C451	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C452	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C453	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C454	1-124-925-11 s	ELECT 2.2uF 20% 50V
C455	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C456	1-124-477-11 s	ELECT 47uF 20% 16V
C457	1-124-477-11 s	ELECT 47uF 20% 16V
C458	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C459	1-163-102-00 s	CERAMIC, CHIP 24PF 5% 50V
C461	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C462	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C463	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C464	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C467	1-124-477-11 s	ELECT 47uF 20% 16V
C468	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C469	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C470	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C471	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C472	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V
C473	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C474	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C475	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C476	1-126-101-11 s	ELECT 100uF 20% 16V
C477	1-124-903-11 s	ELECT 1uF 20% 50V
C478	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C479	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C500	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C501	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C502	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C503	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C504	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C505	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C506	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C507	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C508	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C509	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C510	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C511	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C512	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C513	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C514	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C515	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C516	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C517	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C518	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C519	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C520	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C521	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C524	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C527	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C528	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C529	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C530	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C531	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C532	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C533	1-163-097-00 s	CERAMIC, CHIP 15PF 5% 50V
C534	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C535	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C536	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C537	1-124-477-11 s	ELECT 47uF 20% 16V
C538	1-124-477-11 s	ELECT 47uF 20% 16V
C540	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C541	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C542	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C543	1-124-477-11 s	ELECT 47uF 20% 16V
C545	1-124-477-11 s	ELECT 47uF 20% 16V
C546	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C547	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C548	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C549	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C550	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C551	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V
C600	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C603	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C604	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V
C605	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C606	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C607	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C608	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C609	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C610	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C611	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C612	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C614	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C615	1-124-907-11 s	ELECT 10uF 20% 50V
C616	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C617	1-126-962-11 s	ELECT 3.3uF 20% 50V
C618	1-126-962-11 s	ELECT 3.3uF 20% 50V
C620	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C621	1-124-925-11 s	ELECT 2.2uF 20% 50V
C622	1-124-907-11 s	ELECT 10uF 20% 50V
C623	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C624	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C625	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C626	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C627	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C628	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C629	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V
C700	1-124-903-11 s	ELECT 1uF 20% 50V
C701	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C702	1-124-477-11 s	ELECT 47uF 20% 16V
C703	1-124-477-11 s	ELECT 47uF 20% 16V
C704	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C705	1-124-903-11 s	ELECT 1uF 20% 50V
C706	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C707	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C708	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C709	1-124-477-11 s	ELECT 47uF 20% 16V
C710	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C711	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C712	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C713	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C714	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C715	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C716	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C717	1-124-477-11 s	ELECT 47uF 20% 16V
C718	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C719	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C720	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C721	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C722	1-124-903-11 s	ELECT 1uF 20% 50V
C723	1-124-477-11 s	ELECT 47uF 20% 16V
C724	1-124-477-11 s	ELECT 47uF 20% 16V
C725	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C726	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C727	1-163-809-11 s	CERAMIC, CHIP 0.047uF 10% 25V
C728	1-130-489-00 s	MYLAR 0.033uF 5% 50V
C729	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C730	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C731	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C732	1-124-477-11 s	ELECT 47uF 20% 16V
C733	1-124-907-11 s	ELECT 10uF 20% 50V
C734	1-124-907-11 s	ELECT 10uF 20% 50V
C735	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C736	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C737	1-124-477-11 s	ELECT 47uF 20% 16V
C738	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C739	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C740	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C741	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C742	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C743	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C744	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C745	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C746	1-163-121-00 s	CERAMIC, CHIP 150PF 5% 50V
C747	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C748	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C749	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C750	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V
C751	1-131-347-00 s	TANTALUM 1uF 10% 35V
C752	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C753	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C754	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C755	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C756	1-124-477-11 s	ELECT 47uF 20% 16V
C757	1-131-363-00 s	TANTALUM 4.7uF 10% 15V
C763	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C766	1-124-477-11 s	ELECT 47uF 20% 16V
C769	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C770	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C771	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C772	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C773	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C774	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C775	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C778	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C779	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C780	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C781	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C782	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C783	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C784	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C785	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C786	1-124-477-11 s	ELECT 47uF 20% 16V
C788	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C789	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C790	1-124-477-11 s	ELECT 47uF 20% 16V
C791	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C793	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C794	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C795	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C796	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C797	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C798	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C799	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C800	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C801	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C802	1-124-477-11 s	ELECT 47uF 20% 16V
C803	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C804	1-124-477-11 s	ELECT 47uF 20% 16V
C805	1-124-477-11 s	ELECT 47uF 20% 16V
C806	1-124-477-11 s	ELECT 47uF 20% 16V
C807	1-124-903-11 s	ELECT 1uF 20% 50V
C809	1-164-004-11 s	CERAMIC 0.1uF 10% 25V
C810	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C811	1-164-232-11 s	CERAMIC 0.01uF 10% 50V
C815	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C816	1-124-477-11 s	ELECT 47uF 20% 16V
C819	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C820	1-163-125-00 s	CERAMIC, CHIP 220PF 5% 50V
C871	1-124-903-11 s	ELECT 1uF 20% 50V
CN1	1-564-005-11 o	CONNECTOR 6P, MALE
CN2	1-564-005-11 o	CONNECTOR 6P, MALE
CN105	1-573-600-21 s	CONNECTOR, PHEC 100P, MALE
CN106	1-573-600-21 s	CONNECTOR, PHEC 100P, MALE
CP700	1-760-268-11 s	VCO, CRYSTAL 17.734475MHz
CP701	1-760-265-11 s	VCO, CRYSTAL 13.5MHz
D1	8-719-941-04 s	DIODE SB007-03CP
D2	8-719-941-04 s	DIODE SB007-03CP
D3	8-719-941-04 s	DIODE SB007-03CP
D4	8-719-941-04 s	DIODE SB007-03CP
D100	8-719-941-23 s	DIODE DA204U
D101	8-719-123-85 s	DIODE 1SS304
D200	8-719-941-23 s	DIODE DA204U
D300	8-719-123-82 s	DIODE 1SS303
D301	8-719-941-23 s	DIODE DA204U
D302	8-719-915-30 s	DIODE VARICAP FC53M
D303	8-719-915-30 s	DIODE VARICAP FC53M
D305	8-719-123-82 s	DIODE 1SS303
D306	8-719-105-38 s	DIODE RD3.0M-B1

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Ref. No. or Q'ty	Part No.	SPDescription
D307	8-719-123-82 s	DIODE 1SS303
D308	8-719-123-85 s	DIODE 1SS304
D309	8-719-123-82 s	DIODE 1SS303
D402	8-719-941-23 s	DIODE DA204U
D403	8-719-915-30 s	DIODE VARICAP FC53M
D404	8-719-915-30 s	DIODE VARICAP FC53M
D406	8-719-123-82 s	DIODE 1SS303
D407	8-719-105-38 s	DIODE RD3.0M-B1
D408	8-719-123-82 s	DIODE 1SS303
D500	8-719-123-85 s	DIODE 1SS304
D501	8-719-123-82 s	DIODE 1SS303
D502	8-719-123-82 s	DIODE 1SS303
D503	8-719-123-82 s	DIODE 1SS303
D504	8-719-123-82 s	DIODE 1SS303
D506	8-719-123-82 s	DIODE 1SS303
D600	8-719-123-82 s	DIODE 1SS303
D601	8-719-123-82 s	DIODE 1SS303
D602	8-719-123-82 s	DIODE 1SS303
D700	8-719-123-82 s	DIODE 1SS303
D701	8-719-123-82 s	DIODE 1SS303
D702	8-719-123-82 s	DIODE 1SS303
D706	8-719-123-82 s	DIODE 1SS303
FL1	1-236-129-11 s	ENCAPSULATED COMPONENT
FL2	1-236-129-11 s	ENCAPSULATED COMPONENT
FL3	1-236-129-11 s	ENCAPSULATED COMPONENT
FL500	1-239-134-21 s	FILTER, LOW PASS
FL501	1-239-136-21 s	FILTER, LOW PASS
FL502	1-239-136-21 s	FILTER, LOW PASS
FL600	1-236-091-11 s	FILTER, LOW PASS
FL700	1-236-091-11 s	FILTER, LOW PASS
IC1	8-759-701-84 s	IC NJM7905FA
IC2	8-759-701-75 s	IC NJM7805FA
IC3	8-759-701-75 s	IC NJM7805FA
IC4	8-759-701-75 s	IC NJM7805FA
IC5	8-759-701-84 s	IC NJM7905FA
IC6	8-759-168-20 s	IC NJM78L09A
IC7	8-759-168-20 s	IC NJM78L09A
IC8	8-759-708-05 s	IC NJM78L05A
IC9	8-759-708-05 s	IC NJM78L05A
IC100	8-759-030-74 s	IC SC14S66FER
IC102	8-759-908-17 s	IC TL082CPS
IC103	8-759-908-15 s	IC TL431CLP
IC104	8-752-334-55 s	IC CXD1175AM
IC105	8-759-702-08 s	IC NJM360M
IC200	8-759-030-74 s	IC SC14S66FER
IC201	8-759-908-17 s	IC TL082CPS
IC203	8-759-908-15 s	IC TL431CLP
IC204	8-752-334-55 s	IC CXD1175AM
IC300	8-759-700-43 s	IC NJM4558M
IC301	8-752-339-03 s	IC CXD2207Q
IC302	8-759-700-43 s	IC NJM4558M
IC303	8-759-907-81 s	IC SN74LS22INS
IC304	8-759-941-17 s	IC SN74LS06NS
IC305	8-759-908-17 s	IC TL082CPS
IC306	8-759-030-74 s	IC SC14S66FER
IC307	8-759-973-82 s	IC TLC549IPS
IC308	8-759-991-85 s	IC 74F00SJX
IC309	8-759-711-52 s	IC NJU8001M

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Ref. No. or Q'ty	Part No.	SPDescription
IC310	8-759-700-43 s	IC NJM4558M
IC311	8-759-700-43 s	IC NJM4558M
IC312	8-759-941-27 s	IC MB4002PF
IC313	8-759-702-08 s	IC NJM360M
IC401	8-759-700-43 s	IC NJM4558M
IC402	8-752-339-03 s	IC CXD2207Q
IC403	8-759-907-81 s	IC SN74LS221NS
IC404	8-759-941-17 s	IC SN74LS06NS
IC405	8-759-908-17 s	IC TL082CPS
IC406	8-759-030-74 s	IC SC14S66FER
IC407	8-759-973-82 s	IC TLC549IPS
IC408	8-759-991-85 s	IC 74F00SJX
IC409	8-759-711-52 s	IC NJU8001M
IC410	8-759-700-43 s	IC NJM4558M
IC411	8-759-030-74 s	IC SC14S66FEL
IC412	8-759-926-24 s	IC SN74HC164ANS
IC413	8-759-700-43 s	IC NJM4558M
IC414	8-759-941-27 s	IC MB4002PF
IC415	8-759-702-08 s	IC NJM360M
IC500	8-759-930-50 s	IC SN74LS157NS
IC501	8-759-055-71 s	IC CXD8313Q
IC502	8-759-055-71 s	IC CXD8313Q
IC503	8-752-340-75 s	IC CXK1206AM
IC504	8-752-340-75 s	IC CXK1206AM
IC505	8-752-340-75 s	IC CXK1206AM
IC506	8-752-340-75 s	IC CXK1206AM
IC507	8-752-341-32 s	IC CXD2209Q
IC508	8-759-513-78 s	IC CXD8160Q
IC509	8-759-300-71 s	IC HD14053BFP
IC510	8-759-700-43 s	IC NJM4558M
IC511	8-759-700-43 s	IC NJM4558M
IC512	8-759-700-43 s	IC NJM4558M
IC513	8-752-352-34 s	IC CXD1171M-1
IC514	8-752-052-73 s	IC CXA1450M
IC515	8-752-352-34 s	IC CXD1171M-1
IC516	8-752-352-34 s	IC CXD1171M-1
IC517	8-752-340-57 s	IC CXK1203Q
IC518	8-752-340-57 s	IC CXK1203Q
IC601	8-752-334-64 s	IC CXD1171M
IC602	8-759-702-08 s	IC NJM360M
IC603	8-759-239-23 s	IC TC74HC86AF
IC605	8-752-306-51 s	IC CX23065A
IC607	8-759-030-74 s	IC SC14S66FEL
IC608	8-759-908-17 s	IC TL082CPS
IC609	8-759-100-93 s	IC UPC393G2
IC610	8-759-239-55 s	IC TC74HC123AF
IC611	8-759-925-90 s	IC SN74HC74ANS
IC612	8-759-925-90 s	IC SN74HC74ANS
IC613	8-759-925-72 s	IC SN74HC02ANS
IC700	8-759-300-71 s	IC HD14053BFP
IC701	8-759-925-74 s	IC SN74HC04ANS
IC702	8-759-908-15 s	IC TL431CLP
IC703	8-759-009-05 s	IC MC14051BF
IC704	8-752-052-73 s	IC CXA1451M
IC705	8-759-700-43 s	IC NJM4558M
IC707	8-759-908-17 s	IC TL082CPS
IC709	8-759-908-17 s	IC TL082CPS
IC710	8-759-105-49 s	IC UPC319G2
IC711	8-759-702-08 s	IC NJM360M

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Ref. No. or Q'ty	Part No.	SPDescription
IC712	8-759-700-43 s	IC NJM4558M
IC713	8-759-908-15 s	IC TL431CLP
IC714	8-759-239-55 s	IC TC74HC123AF
IC715	8-759-250-81 s	IC TC5081AP
IC716	8-759-300-71 s	IC HD14053BFP
IC717	8-759-041-53 s	IC MC68HC05N4-SC406682
IC718	8-752-335-47 s	IC CXD1216M
IC719	8-759-925-90 s	IC SN74HC74ANS
IC720	8-759-239-55 s	IC TC74HC123AF
IC721	8-759-926-35 s	IC SN74HC191NS
IC722	8-759-519-49 s	IC CXD8165Q
IC723	8-752-334-64 s	IC CXD1171M
IC724	8-752-334-64 s	IC CXD1171M
IC725	8-759-702-08 s	IC NJM360M
IC726	8-759-300-71 s	IC FD14053BFP
IC727	8-752-052-77 s	IC CXA1450M
IC728	8-759-980-04 s	IC LM311PS
IC729	8-752-052-77 s	IC CXA1450M
IC800	8-759-925-76 s	IC SN74HC08ANS
IC801	8-759-031-84 s	IC TC7S04F
IC802	8-759-031-84 s	IC TC7S04F
L1	1-412-533-21 s	INDUCTOR 47uH
L2	1-412-533-21 s	INDUCTOR 47uH
L3	1-412-533-21 s	INDUCTOR 47uH
Q404	8-729-117-32 s	TRANSISTOR 2SC4177
Q405	8-729-117-32 s	TRANSISTOR 2SC4177
Q406	8-729-117-32 s	TRANSISTOR 2SC4177
Q407	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q408	8-729-117-32 s	TRANSISTOR 2SC4177
Q428	8-729-140-47 s	TRANSISTOR 2SC3735-B34
Q500	8-729-117-32 s	TRANSISTOR 2SC4177
Q501	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q502	8-729-117-32 s	TRANSISTOR 2SC4177
Q503	8-729-117-32 s	TRANSISTOR 2SC4177
Q600	8-729-905-18 s	TRANSISTOR DTC144EU
Q601	8-729-905-18 s	TRANSISTOR DTC144EU
Q602	8-729-905-18 s	TRANSISTOR DTC144EU
Q700	8-729-117-32 s	TRANSISTOR 2SC4177
Q702	8-729-117-32 s	TRANSISTOR 2SC4177
Q703	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q704	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q705	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q706	8-729-117-32 s	TRANSISTOR 2SC4177
Q707	8-729-117-32 s	TRANSISTOR 2SC4177
Q708	8-729-117-32 s	TRANSISTOR 2SC4177
Q709	8-729-117-32 s	TRANSISTOR 2SC4177
Q714	8-729-117-32 s	TRANSISTOR 2SC4177
Q715	8-729-117-32 s	TRANSISTOR 2SC4177
Q717	8-729-117-32 s	TRANSISTOR 2SC4177
Q718	8-729-117-32 s	TRANSISTOR 2SC4177
Q719	8-729-117-32 s	TRANSISTOR 2SC4177
R100	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R101	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R103	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R104	1-216-629-11 s	METAL, CHIP 120 0.5% 1/10W
R105	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R106	1-216-652-11 s	METAL, CHIP 1.1K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R107	1-216-652-11 s	METAL, CHIP 1.1K 0.5% 1/10W
R108	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R109	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R111	1-216-669-11 s	METAL, CHIP 5.6K 0.5% 1/10W
R112	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R113	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R114	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R115	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R124	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R126	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R127	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R128	1-216-695-11 s	METAL, CHIP 68K 0.5% 1/10W
R129	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R130	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R131	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R132	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R133	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R134	1-216-037-00 s	METAL, CHIP 330 5% 1/10W
R200	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R201	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R203	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R204	1-216-635-11 s	METAL, CHIP 220 0.5% 1/10W
R205	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R206	1-216-652-11 s	METAL, CHIP 1.1K 0.5% 1/10W
R207	1-216-652-11 s	METAL, CHIP 1.1K 0.5% 1/10W
R208	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R209	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R210	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R211	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R212	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R213	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R214	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R215	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R224	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R225	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R226	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R227	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R228	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R300	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R301	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R302	1-216-669-11 s	METAL, CHIP 5.6K 0.5% 1/10W
R303	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R305	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R306	1-216-117-00 s	METAL, CHIP 680K 5% 1/10W
R307	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R308	1-216-059-00 s	METAL, CHIP 2.7K 5% 1/10W
R309	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R310	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R311	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R312	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R313	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R314	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R317	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R318	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R319	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R320	1-216-695-11 s	METAL, CHIP 68K 0.5% 1/10W
R321	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R323	1-216-051-00 s	METAL, CHIP 1.2K 5% 1/10W
R325	1-216-668-11 s	METAL, CHIP 5.1K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R326	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
R327	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R329	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R330	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R331	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R332	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R333	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R334	1-216-661-11 s	METAL, CHIP 2.7K 0.5% 1/10W
R337	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R338	1-216-059-00 s	METAL, CHIP 2.7K 5% 1/10W
R339	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R340	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R341	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R342	1-216-069-00 s	METAL, CHIP 6.8K 5% 1/10W
R343	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R344	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R345	1-208-789-11 s	METAL, CHIP 2K 0.50% 1/10W
R346	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R347	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R348	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R349	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R350	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R351	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R352	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R353	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R354	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R355	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R356	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R357	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R358	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R359	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R362	1-216-109-00 s	METAL, CHIP 330K 5% 1/10W
R363	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R364	1-216-695-11 s	METAL, CHIP 68K 0.5% 1/10W
R365	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R366	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R367	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R368	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R369	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R370	1-216-037-00 s	METAL, CHIP 330 5% 1/10W
R371	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R372	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R373	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R374	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R375	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R376	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R377	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R378	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R380	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R381	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R382	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R383	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R384	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R385	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R386	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R387	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R388	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R389	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R391	1-216-017-00 s	METAL, CHIP 47 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R392	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R393	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R394	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R395	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R396	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R397	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R403	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R404	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R405	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R407	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R409	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R410	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R411	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R412	1-216-117-00	s METAL, CHIP 680K 5% 1/10W
R413	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R414	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R415	1-216-633-11	s METAL, CHIP 180 0.5% 1/10W
R416	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R417	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R418	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R419	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R421	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R422	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R425	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R426	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R427	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R428	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R429	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R430	1-208-803-11	s METAL, 7.5K 0.50% 1/10W
R431	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R434	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R435	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R436	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R438	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R440	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R442	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R443	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R447	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R448	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R450	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R452	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R453	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R454	1-208-789-11	s METAL, 2K 0.50% 1/10W
R455	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R456	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R457	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R458	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R459	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R460	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R461	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R462	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R463	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R464	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R467	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R468	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R470	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R471	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R472	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R473	1-216-041-00	s METAL, CHIP 470 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R474	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R475	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R476	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R477	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R478	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R479	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R481	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R482	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R483	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R484	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R485	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R486	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R487	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R488	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R489	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R491	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R492	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R493	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R494	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R495	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R496	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R497	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R498	1-216-089-00	s METAL, CHIP 47K 5% 1/10W
R500	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R501	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R502	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R503	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R504	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R505	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R506	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R507	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R508	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R509	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R510	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R511	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R512	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R514	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R515	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R517	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R518	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R519	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R520	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R521	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R522	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R523	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R527	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R529	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R530	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R531	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R532	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R533	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R534	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R535	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R536	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R537	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R538	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R539	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R540	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R541	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R542	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R543	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R544	1-216-673-11 s	METAL, CHIP 8.2K 0.5% 1/10W
R545	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R546	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R547	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R548	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R549	1-216-661-11 s	METAL, CHIP 2.7K 0.5% 1/10W
R552	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R553	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R554	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R555	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R556	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R557	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R558	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R559	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R560	1-216-665-11 s	METAL, CHIP 3.9K 0.5% 1/10W
R561	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R562	1-216-665-11 s	METAL, CHIP 3.9K 0.5% 1/10W
R563	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R564	1-216-645-11 s	METAL, CHIP 560 0.5% 1/10W
R565	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R566	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R567	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R568	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R569	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R570	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R571	1-216-619-11 s	METAL, CHIP 47 0.5% 1/10W
R572	1-216-619-11 s	METAL, CHIP 47 0.5% 1/10W
R573	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R574	1-216-619-11 s	METAL, CHIP 47 0.5% 1/10W
R575	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R576	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R577	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R578	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R579	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R600	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R601	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R602	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R603	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R604	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R605	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R606	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R607	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R610	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R612	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R613	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R614	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R615	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R616	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R617	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R618	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R619	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R620	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R621	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R622	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R623	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R624	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R625	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R626	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R627	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R628	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R629	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R631	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R632	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R700	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R701	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R702	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R703	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R704	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R705	1-216-655-11 s	METAL, CHIP 1.5K 0.5% 1/10W
R712	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R713	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R715	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R716	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R717	1-216-051-00 s	METAL, CHIP 1.2K 5% 1/10W
R718	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R719	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R720	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R721	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R722	1-216-035-00 s	METAL, CHIP 270 5% 1/10W
R723	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R724	1-216-051-00 s	METAL, CHIP 1.2K 5% 1/10W
R725	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R726	1-216-035-00 s	METAL, CHIP 270 5% 1/10W
R727	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R728	1-216-674-11 s	METAL, CHIP 9.1K 0.5% 1/10W
R729	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R730	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R731	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R732	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R734	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R735	1-216-655-11 s	METAL, CHIP 1.5K 0.5% 1/10W
R736	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R737	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R738	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R739	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R741	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R743	1-216-047-00 s	METAL, CHIP 820 5% 1/10W
R745	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R747	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R748	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R749	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R750	1-216-668-11 s	METAL, CHIP 5.1K 0.5% 1/10W
R751	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R752	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R753	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R754	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R755	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R756	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R757	1-216-669-11 s	METAL, CHIP 5.6K 0.5% 1/10W
R758	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R759	1-208-812-11 s	METAL, CHIP 18K 0.50% 1/10W
R760	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R761	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R762	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R763	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R764	1-216-025-00 s	METAL, CHIP 100 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R765	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R766	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R768	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R769	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R770	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R771	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R772	1-216-069-00 s	METAL, CHIP 6.8K 5% 1/10W
R773	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R774	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R775	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R776	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R777	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R778	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R779	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R780	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R781	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R782	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
R784	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R786	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R787	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R788	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R789	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R790	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R791	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R792	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R793	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R794	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R796	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R797	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R802	1-216-089-91 s	METAL, CHIP 47K 5% 1/10W
R804	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R805	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R806	1-216-663-11 s	METAL, CHIP 3.3K 0.5% 1/10W
R807	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R808	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R809	1-216-635-11 s	METAL, CHIP 220 0.5% 1/10W
R810	1-216-635-11 s	METAL, CHIP 220 0.5% 1/10W
R811	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R812	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R813	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R814	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R815	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R816	1-216-619-11 s	METAL, CHIP 47 0.5% 1/10W
R817	1-216-619-11 s	METAL, CHIP 47 0.5% 1/10W
R818	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R819	1-216-635-11 s	METAL, CHIP 220 0.5% 1/10W
R821	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R822	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R823	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R824	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R825	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R826	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R827	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R828	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R829	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R830	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R831	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R832	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R833	1-216-041-00 s	METAL, CHIP 470 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R834	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R835	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R836	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R837	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R838	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R839	1-216-069-00 s	METAL, CHIP 6.8K 5% 1/10W
R840	1-216-061-00 s	METAL, CHIP 3.3K 5% 1/10W
R841	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R842	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R843	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R844	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R845	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R846	1-216-101-00 s	METAL, CHIP 150K 5% 1/10W
R847	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R848	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R849	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R850	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R851	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R852	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R853	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R854	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R855	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R856	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R857	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R858	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R859	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R860	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R865	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R866	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R867	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R869	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R870	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R871	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R872	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R873	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R874	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R875	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R876	1-216-133-00 s	METAL, CHIP 3.3M 5% 1/10W
RV100	1-238-796-11 s	RES, ADJ, CERMET 100
RV200	1-238-796-11 s	RES, ADJ, CERMET 100
RV301	1-238-801-11 s	RES, ADJ, CERMET 5K
RV302	1-238-804-11 s	RES, ADJ, CERMET 500
RV303	1-238-803-11 s	RES, ADJ, CERMET 200
RV307	1-238-801-11 s	RES, ADJ, CERMET 5K
RV400	1-238-801-11 s	RES, ADJ, CERMET 5K
RV401	1-238-801-11 s	RES, ADJ, CERMET 5K
RV402	1-238-804-11 s	RES, ADJ, CERMET 500
RV403	1-238-801-11 s	RES, ADJ, CERMET 5K
RV500	1-238-786-11 s	RES, ADJ, CERMET 5K
RV501	1-238-786-11 s	RES, ADJ, CERMET 5K
RV700	1-238-800-11 s	RES, ADJ, CERMET 2K
RV701	1-238-801-11 s	RES, ADJ, CERMET 5K
RV702	1-238-787-11 s	RES, ADJ, CERMET 100
RV703	1-238-787-11 s	RES, ADJ, CERMET 100
RV704	1-238-787-11 s	RES, ADJ, CERMET 100
RV705	1-238-799-11 s	RES, ADJ, CERMET 1K
RV706	1-238-787-11 s	RES, ADJ, CERMET 100
RV707	1-238-787-11 s	RES, ADJ, CERMET 100

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Ref. No. or Q'ty	Part No.	SPDescription
RV708	1-238-787-11 s	RES, ADJ, CERMET 10K
RV709	1-238-801-11 s	RES, ADJ, CERMET 5K
RV710	1-238-787-11 s	RES, ADJ, CERMET 10K
RV711	1-238-800-11 s	RES, ADJ, CERMET 2K
S700	1-570-623-11 s	SWITCH, DIP 8-CKT

TR-73 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-161-11 o	PRINTED CIRCUIT BOARD, TR-73
1pc	3-171-392-01 s	HOLDER, DME
CN920	1-564-014-11 s	CONNECTOR 4P, MALE
SS1	8-745-001-07 s	DM-230-1

VP-33AP BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6727-374-B o	MOUNTED CIRCUIT BOARD, VP-33AP
1pc	3-179-084-01 s	LEVER (R), PC BOARD
1pc	3-179-085-01 s	LEVER (L), PC BOARD
C1	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C2	1-124-477-11 s	ELECT 47uF 20% 16V
C3	1-124-477-11 s	ELECT 47uF 20% 16V
C4	1-124-477-11 s	ELECT 47uF 20% 16V
C5	1-124-477-11 s	ELECT 47uF 20% 16V
C6	1-124-477-11 s	ELECT 47uF 20% 16V
C7	1-124-477-11 s	ELECT 47uF 20% 16V
C8	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C9	1-124-477-11 s	ELECT 47uF 20% 16V
C10	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C11	1-124-477-11 s	ELECT 47uF 20% 16V
C12	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C13	1-131-353-00 s	TANTALUM 10uF 10% 35V
C20	1-135-210-11 s	TANTAL 4.7uF 20% 10V
C21	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C22	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C96	1-102-965-00 s	CERAMIC 39PF 5% 50V
C97	1-102-965-00 s	CERAMIC 39PF 5% 50V
C99	1-107-591-11	CERAMIC 12PF 5% 500V
C102	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C104	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C105	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C111	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C112	1-124-477-11 s	ELECT 47uF 20% 16V
C120	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C121	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C122	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C123	1-163-108-00 s	CERAMIC, CHIP 43PF 5% 50V
C124	1-163-249-11 s	CERAMIC, CHIP 82PF 5% 50V
C125	1-163-108-00 s	CERAMIC, CHIP 43PF 5% 50V
C126	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C127	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C128	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C129	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C130	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C131	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C132	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C133	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C134	1-163-245-11 s	CERAMIC, CHIP 56PF 5% 50V
C135	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C136	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C137	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C150	1-163-224-11 s	CERAMIC, CHIP 7PF 50V
C154	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C155	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C161	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C162	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C163	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C164	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C165	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C166	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C167	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C181	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C182	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C183	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V

VP-33AP BOARD

Ref. No. or Q'ty	Part No.	SPDescription
C184	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C185	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C186	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C187	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C188	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C189	1-163-097-00 s	CERAMIC, CHIP 15PF 5% 50V
C190	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C191	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C192	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C193	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C194	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C195	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C196	1-124-477-11 s	ELECT 47uF 20% 16V
C197	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C198	1-124-477-11 s	ELECT 47uF 20% 16V
C211	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V
C212	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C213	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C214	1-124-477-11 s	ELECT 47uF 20% 16V
C215	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C216	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C217	1-163-241-11 s	CERAMIC, CHIP 39PF 5% 50V
C218	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C219	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C220	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C221	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C222	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C223	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C224	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C231	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C232	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C233	1-124-477-11 s	ELECT 47uF 20% 16V
C234	1-124-477-11 s	ELECT 47uF 20% 16V
C235	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C236	1-163-097-00 s	CERAMIC, CHIP 15PF 5% 50V
C237	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C238	1-124-477-11 s	ELECT 47uF 20% 16V
C241	1-124-903-11 s	ELECT 1uF 20% 50V
C242	1-124-903-11 s	ELECT 1uF 20% 50V
C243	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C244	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C245	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C246	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C261	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C262	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C263	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C264	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C265	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C266	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C267	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C268	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C269	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C270	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C272	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C291	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C292	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C293	1-124-477-11 s	ELECT 47uF 20% 16V
C294	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C295	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C296	1-162-714-11 s	CERAMIC 150PF 1% 50V
C297	1-126-103-11 s	ELECT 470uF 20% 16V
C298	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C299	1-124-927-11 s	ELECT 4.7uF 20% 50V
C300	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C301	1-163-114-00 s	CERAMIC, CHIP 75PF 5% 50V
C302	1-163-249-11 s	CERAMIC, CHIP 82PF 5% 50V
C303	1-163-130-00 s	CERAMIC, CHIP 360PF 5% 50V
C304	1-163-131-00 s	CERAMIC, CHIP 390PF 5% 50V
C305	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C306	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C307	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C308	1-124-477-11 s	ELECT 47uF 20% 16V
C309	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C310	1-124-477-11 s	ELECT 47uF 20% 16V
C311	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C312	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C313	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C314	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C315	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C316	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C321	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C322	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C323	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C324	1-126-103-11 s	ELECT 470uF 20% 16V
C325	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C326	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C327	1-163-091-00 s	CERAMIC, CHIP 8PF 50V
C328	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C329	1-124-119-00 s	ELECT 330uF 20% 16V
C330	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C331	1-124-119-00 s	ELECT 330uF 20% 16V
C340	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C352	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C354	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C355	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C356	1-126-103-11 s	ELECT 470uF 20% 16V
C357	1-126-103-11 s	ELECT 470uF 20% 16V
C367	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C368	1-127-518-11 s	ELECTSOLID 100uF 20% 16V
C369	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C370	1-127-518-11 s	ELECTSOLID 100uF 20% 16V
C371	1-163-237-11 s	CERAMIC, CHIP 27PF 5% 50V
C402	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C404	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C405	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C409	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C410	1-124-477-11 s	ELECT 47uF 20% 16V
C420	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C421	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C422	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C423	1-163-110-00 s	CERAMIC, CHIP 51PF 5% 50V
C424	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C425	1-163-110-00 s	CERAMIC, CHIP 51PF 5% 50V
C426	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C427	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C428	1-163-241-11 s	CERAMIC, CHIP 39PF 5% 50V
C429	1-163-253-11 s	CERAMIC, CHIP 120PF 5% 50V
C430	1-163-241-11 s	CERAMIC, CHIP 39PF 5% 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C431	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C432	1-163-135-00 s	CERAMIC, CHIP 560PF 5% 50V
C433	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C434	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C435	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C436	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C437	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C438	1-163-136-00 s	CERAMIC, CHIP 620PF 5% 50V
C450	1-163-257-11 s	CERAMIC, CHIP 180PF 5% 50V
C451	1-163-135-00 s	CERAMIC, CHIP 560PF 5% 50V
C461	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C462	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C463	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C464	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C465	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C466	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C467	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C468	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C469	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C470	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C471	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C472	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C473	1-124-477-11 s	ELECT 47uF 20% 16V
C474	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C475	1-124-477-11 s	ELECT 47uF 20% 16V
C507	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C508	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C509	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C510	1-124-477-11 s	ELECT 47uF 20% 16V
C511	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V
C512	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C513	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C514	1-124-477-11 s	ELECT 47uF 20% 16V
C515	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C516	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C517	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C518	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C519	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C520	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C521	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C522	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C523	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C524	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C531	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C532	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C533	1-124-477-11 s	ELECT 47uF 20% 16V
C534	1-124-477-11 s	ELECT 47uF 20% 16V
C535	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C536	1-163-097-00 s	CERAMIC, CHIP 15PF 5% 50V
C537	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C538	1-124-477-11 s	ELECT 47uF 20% 16V
C541	1-124-903-11 s	ELECT 1uF 20% 50V
C542	1-124-903-11 s	ELECT 1uF 20% 50V
C543	1-163-275-11 s	CERAMIC, CHIP 0.001uF 5% 50V
C544	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C545	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C546	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C550	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C561	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C562	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C563	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C564	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C565	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C566	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C567	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C568	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C569	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C571	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C591	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C592	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C593	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C594	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C595	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C596	1-162-714-11 s	CERAMIC 150PF 1% 50V
C597	1-126-103-11 s	ELECT 470uF 20% 16V
C598	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C599	1-124-927-11 s	ELECT 4.7uF 20% 50V
C600	1-163-239-11 s	CERAMIC, CHIP 33PF 5% 50V
C601	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C602	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C603	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C604	1-124-477-11 s	ELECT 47uF 20% 16V
C621	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C622	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C623	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C624	1-126-103-11 s	ELECT 470uF 20% 16V
C625	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C626	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C627	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C628	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C629	1-124-119-00 s	ELECT 330uF 20% 16V
C630	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C631	1-124-119-00 s	ELECT 330uF 20% 16V
C632	1-126-101-11 s	ELECT 100uF 20% 16V
C640	1-164-695-11 s	CERAMIC 0.0022uF 5% 50V
C652	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C654	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C655	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C656	1-126-103-11 s	ELECT 470uF 20% 16V
C657	1-126-103-11 s	ELECT 470uF 20% 16V
C667	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C668	1-127-518-11 s	ELECTSOLID 100uF 20% 16V
C669	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C670	1-127-518-11 s	ELECTSOLID 100uF 20% 16V
C702	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C703	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C704	1-131-353-00 s	TANTALUM 10uF 10% 16V
C705	1-131-353-00 s	TANTALUM 10uF 10% 16V
C706	1-130-491-00 s	MYLAR 0.047uF 5% 50V
C707	1-163-227-11 s	CERAMIC, CHIP 10PF 50V
C708	1-163-222-11 s	CERAMIC, CHIP 5PF 50V
C709	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C710	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C711	1-163-227-11 s	CERAMIC, CHIP 10PF 50V
C712	1-124-477-11 s	ELECT 47uF 20% 16V
C713	1-163-227-11 s	CERAMIC, CHIP 10PF 50V
C714	1-131-353-00 s	TANTALUM 10uF 10% 16V
C715	1-131-353-00 s	TANTALUM 10uF 10% 16V

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Ref. No. or Q'ty	Part No.	SPDescription
C716	1-130-491-00	s MYLAR 0.047uF 5% 50V
C717	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C718	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C719	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C721	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C722	1-163-222-11	s CERAMIC, CHIP 5PF 50V
C725	1-131-353-00	s TANTALUM 10uF 10% 16V
C726	1-131-353-00	s TANTALUM 10uF 10% 16V
C727	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C728	1-130-491-00	s MYLAR 0.047uF 5% 50V
C729	1-131-353-00	s TANTALUM 10uF 10% 16V
C730	1-131-353-00	s TANTALUM 10uF 10% 16V
C731	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C732	1-130-491-00	s MYLAR 0.047uF 5% 50V
C733	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C734	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C735	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
C736	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C737	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C738	1-163-125-00	s CERAMIC, CHIP 220PF 5% 50V
C739	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C740	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C741	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C742	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C743	1-163-087-00	s CERAMIC, CHIP 4PF 50V
C744	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C745	1-124-477-11	s ELECT 47uF 20% 16V
C746	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C747	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C748	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C749	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C750	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C751	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C752	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C753	1-163-239-11	s CERAMIC, CHIP 33PF 5% 50V
C754	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C755	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C756	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C757	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C759	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C760	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C761	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C762	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C763	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C764	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C765	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C766	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C767	1-163-097-00	s CERAMIC, CHIP 15PF 5% 50V
C768	1-163-243-11	s CERAMIC, CHIP 47PF 5% 50V
C769	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C770	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C771	1-124-477-11	s ELECT 47uF 20% 16V
C772	1-124-477-11	s ELECT 47uF 20% 16V
C773	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C774	1-163-113-00	s CERAMIC, CHIP 68PF 5% 50V
C780	1-163-227-11	s CERAMIC, CHIP 10PF 50V
C781	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C782	1-163-237-11	s CERAMIC, CHIP 27PF 5% 50V
C790	1-163-227-11	s CERAMIC, CHIP 10PF 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C801	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C802	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C803	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C901	1-124-477-11	s ELECT 47uF 20% 16V
C902	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C903	1-124-477-11	s ELECT 47uF 20% 16V
C904	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C905	1-124-477-11	s ELECT 47uF 20% 16V
C906	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C907	1-124-477-11	s ELECT 47uF 20% 16V
C908	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C909	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C910	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C911	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C912	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C913	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C914	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C915	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C916	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C917	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C918	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C919	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C920	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C921	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C922	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C923	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C924	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C925	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C926	1-124-477-11	s ELECT 47uF 20% 16V
C927	1-124-477-11	s ELECT 47uF 20% 16V
C928	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C929	1-124-119-00	s ELECT 330uF 20% 16V
C930	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C931	1-124-119-00	s ELECT 330uF 20% 16V
C932	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C933	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C934	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C935	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C936	1-124-477-11	s ELECT 47uF 20% 16V
C937	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C938	1-124-477-11	s ELECT 47uF 20% 16V
C939	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C940	1-124-477-11	s ELECT 47uF 20% 16V
C941	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C942	1-124-477-11	s ELECT 47uF 20% 16V
C943	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C944	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C945	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C946	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C947	1-124-477-11	s ELECT 47uF 20% 16V
C948	1-124-477-11	s ELECT 47uF 20% 16V
C949	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C950	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C951	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C952	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C953	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C954	1-124-477-11	s ELECT 47uF 20% 16V
C955	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V
C956	1-163-033-00	s CERAMIC, CHIP 0.022uF 50V

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Ref. No. or Q'ty	Part No.	SPDescription
C957	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C958	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C959	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C960	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C961	1-124-477-11 s	ELECT 47uF 20% 16V
C962	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C963	1-124-477-11 s	ELECT 47uF 20% 16V
C964	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C965	1-124-477-11 s	ELECT 47uF 20% 16V
C966	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C967	1-124-477-11 s	ELECT 47uF 20% 16V
C968	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C969	1-124-477-11 s	ELECT 47uF 20% 16V
C970	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C971	1-124-477-11 s	ELECT 47uF 20% 16V
C972	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C973	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C974	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C975	1-124-477-11 s	ELECT 47uF 20% 16V
C976	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C977	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C978	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C979	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C980	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C981	1-124-477-11 s	ELECT 47uF 20% 16V
C982	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C983	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C984	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C985	1-124-477-11 s	ELECT 47uF 20% 16V
C991	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C992	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C993	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C994	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C995	1-124-477-11 s	ELECT 47uF 20% 16V
C1001	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C1002	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C2001	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C2002	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C3001	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
C3002	1-163-033-00 s	CERAMIC, CHIP 0.022uF 50V
CN101	1-564-002-11 s	CONNECTOR 3P, MALE
CN102	1-564-002-11 s	CONNECTOR 3P, MALE
CN103	1-573-600-21 s	CONNECTOR, PHEC 100P, MALE
CN104	1-573-600-21 s	CONNECTOR, PHEC 100P, MALE
CN203	1-506-467-11 s	CONNECTOR 2P, MALE
CN204	1-506-467-11 s	CONNECTOR 2P, MALE
CN205	1-506-467-11 s	CONNECTOR 2P, MALE
CN401	1-564-002-41 s	CONNECTOR 3P, MALE
CN402	1-564-002-41 s	CONNECTOR 3P, MALE
CN503	1-506-467-11 s	CONNECTOR 2P, MALE
CN504	1-506-467-11 s	CONNECTOR 2P, MALE
CN701	1-564-001-11 o	CONNECTOR 2P, MALE
CN702	1-564-001-11 o	CONNECTOR 2P, MALE
CN703	1-506-469-11 s	CONNECTOR 4P, MALE
CN704	1-506-469-11 s	CONNECTOR 4P, MALE
CN705	1-506-467-11 s	CONNECTOR 2P, MALE
CN801	1-565-479-11 s	CONNECTOR, BB 20P
D1	8-719-941-04 s	DIODE SB007-03CP

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Ref. No. or Q'ty	Part No.	SPDescription
D201	8-719-123-82 s	DIODE 1SS303
D501	8-719-123-82 s	DIODE 1SS303
D502	8-719-123-82 s	DIODE 1SS303
D701	8-719-123-82 s	DIODE 1SS303
D702	8-719-105-38 s	DIODE RD3.0M-B1
D703	8-719-123-82 s	DIODE 1SS303
D704	8-719-123-82 s	DIODE 1SS303
D705	8-719-941-04 s	DIODE SB007-03CP
D706	8-719-941-04 s	DIODE SB007-03CP
D707	8-719-123-82 s	DIODE 1SS303
D708	8-719-123-82 s	DIODE 1SS303
D709	8-719-123-82 s	DIODE 1SS303
DL101	1-415-674-11 s	DELAY LINE 35nS
DL401	1-415-546-11 s	DELAY LINE 50nS
FL201	1-239-161-21 s	FILTER, LOW PASS
FL202	1-239-133-21 s	FILTER, LOW PASS
FL501	1-239-133-21 s	FILTER, LOW PASS
FL502	1-239-063-21 s	FILTER, LOW PASS
FL701	1-236-070-11 s	FILTER, LOW PASS
IC1	8-759-925-74 s	IC TC74HC04NS
IC2	8-759-925-74 s	IC TC74HC04NS
IC3	8-759-925-72 s	IC SN74HC02ANS
IC4	8-759-927-46 s	IC SN74HC00ANS
IC5	8-759-925-85 s	IC SN74HC32ANS
IC6	8-759-035-93 s	IC TC7S32F-TE85L
IC10	8-759-168-20 s	IC NJM78L09A
IC11	8-759-701-87 s	IC NJM7909FA
IC12	8-759-701-87 s	IC NJM7909FA
IC13	8-759-700-07 s	IC NJM2903M
IC14	8-759-927-46 s	IC SN74HC00ANS
IC101	8-752-052-75 s	IC CXA1479Q
IC102	8-759-009-05 s	IC MC14051BF
IC103	8-759-300-71 s	IC HD14053BFP
IC104	8-759-908-92 s	IC TL084CNS
IC105	8-759-908-17 s	IC TL082CPS
IC201	8-752-052-48 s	IC CXA1370Q
IC202	8-759-300-71 s	IC HD14053BFP
IC203	8-759-908-17 s	IC TL082CPS
IC204	8-752-052-77 s	IC CXA1450M
IC205	8-759-708-05 s	IC NJM78L05A
IC206	1-809-332-11 s	IC H8D7169C
IC401	8-752-052-75 s	IC CXA1479Q
IC402	8-759-009-05 s	IC MC14051BF
IC403	8-759-300-71 s	IC HD14053BFP
IC404	8-759-908-92 s	IC TL084CNS
IC501	8-752-052-48 s	IC CXA1370Q
IC502	8-759-300-71 s	IC HD14053BFP
IC504	8-752-052-77 s	IC CXA1450M
IC506	1-809-332-11 s	IC H8D7169C
IC605	8-759-708-05 s	IC NJM78L05A
IC701	8-759-908-92 s	IC TL084CNS
IC702	8-759-300-71 s	IC HD14053BFP
IC703	8-759-927-46 s	IC SN74HC00ANS
IC704	8-752-052-73 s	IC CXA1451M
IC705	8-752-052-73 s	IC CXA1451M
IC706	8-752-052-73 s	IC CXA1451M
IC707	8-752-052-73 s	IC CXA1451M
IC708	8-759-908-92 s	IC TL084CNS

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Ref. No. or Q'ty	Part No.	SPDescription
IC710	8-759-908-92	s IC TL084CNS
IC711	8-759-300-71	s IC HD14053BFP
IC712	8-759-908-92	s IC TL084CNS
IC713	8-759-907-81	s IC SN74LS221NS
IC714	8-759-927-46	s IC SN74HC00ANS
IC715	8-759-906-59	s IC CX22017
IC716	8-752-052-73	s IC CXA1451M
IC717	8-759-702-08	s IC NJM360M
IC718	8-759-907-81	s IC SN74LS221NS
IC719	8-759-925-90	s IC SN74HC74ANS
IC720	8-752-052-73	s IC CXA1451M
IC721	8-752-052-73	s IC CXA1451M
IC722	8-759-927-46	s IC SN74HC00ANS
IC801	8-759-702-08	s IC NJM360M
IC901	8-759-168-20	s IC NJM78L09A
IC902	8-759-701-75	s IC NJM7805FA
IC903	8-759-701-84	s IC NJM7905FA
IC904	8-759-168-20	s IC NJM78L09A
IC905	8-759-708-05	s IC NJM78L05A
IC906	8-759-700-65	s IC NJM79L05A
IC907	8-759-700-65	s IC NJM79L05A
IC908	8-759-700-65	s IC NJM79L05A
L1	1-412-533-21	s INDUCTOR 47uH
L2	1-412-533-21	s INDUCTOR 47uH
L3	1-412-533-21	s INDUCTOR 47uH
L4	1-412-533-21	s INDUCTOR 47uH
L5	1-412-533-21	s INDUCTOR 47uH
L96	1-410-525-11	s INDUCTOR 220uH
L97	1-410-525-11	s INDUCTOR 220uH
L99	1-410-466-41	s INDUCTOR 4.7uH
L101	1-410-482-31	s INDUCTOR 100uH
L121	1-410-466-41	s INDUCTOR 4.7uH
L122	1-410-466-41	s INDUCTOR 4.7uH
L123	1-410-470-11	s INDUCTOR 10uH
L124	1-410-470-11	s INDUCTOR 10uH
L125	1-410-466-41	s INDUCTOR 4.7uH
L181	1-410-473-11	s INDUCTOR 18uH
L182	1-410-466-41	s INDUCTOR 4.7uH
L183	1-410-482-31	s INDUCTOR 100uH
L184	1-410-482-31	s INDUCTOR 100uH
L211	1-410-482-31	s INDUCTOR 100uH
L212	1-408-408-00	s INDUCTOR 8.2uH
L213	1-410-462-11	s INDUCTOR 2.2uH
L231	1-408-427-00	s INDUCTOR 330uH
L232	1-410-482-31	s INDUCTOR 100uH
L261	1-410-471-11	s INDUCTOR 12uH
L291	1-410-468-11	s INDUCTOR 6.8uH
L292	1-408-413-00	s INDUCTOR 22uH
L293	1-408-416-00	s INDUCTOR 39uH
L294	1-410-482-31	s INDUCTOR 100uH
L321	1-410-482-31	s INDUCTOR 100uH
L322	1-410-482-31	s INDUCTOR 100uH
L351	1-410-482-31	s INDUCTOR 100uH
L352	1-410-482-31	s INDUCTOR 100uH
L401	1-410-482-31	s INDUCTOR 100uH
L421	1-410-468-11	s INDUCTOR 6.8uH
L422	1-410-468-11	s INDUCTOR 6.8uH
L423	1-410-470-11	s INDUCTOR 10uH

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Ref. No. or Q'ty	Part No.	SPDescription
L424	1-410-470-11	s INDUCTOR 10uH
L425	1-408-406-00	s INDUCTOR 5.6uH
L450	1-408-429-00	s INDUCTOR 470uH
L451	1-408-429-00	s INDUCTOR 470uH
L461	1-410-482-31	s INDUCTOR 100uH
L462	1-410-482-31	s INDUCTOR 100uH
L511	1-410-482-31	s INDUCTOR 100uH
L512	1-410-470-11	s INDUCTOR 10uH
L513	1-410-462-11	s INDUCTOR 2.2uH
L531	1-408-427-00	s INDUCTOR 330uH
L532	1-410-482-31	s INDUCTOR 100uH
L561	1-410-471-11	s INDUCTOR 12uH
L591	1-408-408-00	s INDUCTOR 8.2uH
L594	1-410-482-31	s INDUCTOR 100uH
L621	1-410-482-31	s INDUCTOR 100uH
L622	1-410-482-31	s INDUCTOR 100uH
L651	1-410-482-31	s INDUCTOR 100uH
L652	1-410-482-31	s INDUCTOR 100uH
L701	1-410-482-31	s INDUCTOR 100uH
L702	1-410-476-11	s INDUCTOR 33uH
L703	1-410-482-31	s INDUCTOR 100uH
L704	1-408-413-00	s INDUCTOR 22uH
L705	1-408-414-00	s INDUCTOR 27uH
L706	1-408-414-00	s INDUCTOR 27uH
L707	1-408-414-00	s INDUCTOR 27uH
L708	1-408-414-00	s INDUCTOR 27uH
L709	1-408-416-00	s INDUCTOR 39uH
L710	1-408-416-00	s INDUCTOR 39uH
L711	1-410-478-11	s INDUCTOR 47uH
L712	1-410-482-31	s INDUCTOR 100uH
L720	1-408-413-00	s INDUCTOR 22uH
L721	1-408-419-00	s INDUCTOR 68uH
L901	1-410-482-31	s INDUCTOR 100uH
L902	1-410-482-31	s INDUCTOR 100uH
L903	1-410-482-31	s INDUCTOR 100uH
L904	1-410-482-31	s INDUCTOR 100uH
L905	1-410-482-31	s INDUCTOR 100uH
L906	1-410-482-31	s INDUCTOR 100uH
L907	1-410-482-31	s INDUCTOR 100uH
L908	1-410-482-31	s INDUCTOR 100uH
L909	1-410-482-31	s INDUCTOR 100uH
L910	1-410-482-31	s INDUCTOR 100uH
L911	1-410-482-31	s INDUCTOR 100uH
L912	1-410-482-31	s INDUCTOR 100uH
L913	1-410-482-31	s INDUCTOR 100uH
L914	1-410-482-31	s INDUCTOR 100uH
L915	1-410-482-31	s INDUCTOR 100uH
L916	1-410-482-31	s INDUCTOR 100uH
L917	1-410-482-31	s INDUCTOR 100uH
L918	1-410-482-31	s INDUCTOR 100uH
L919	1-410-482-31	s INDUCTOR 100uH
L920	1-410-482-31	s INDUCTOR 100uH
L921	1-410-482-31	s INDUCTOR 100uH
Q20	8-729-117-32	s TRANSISTOR 2SC4177
Q99	8-729-901-06	s TRANSISTOR DTA144EK
Q120	8-729-117-32	s TRANSISTOR 2SC4177
Q121	8-729-117-72	s TRANSISTOR 2SC4178
Q122	8-729-117-72	s TRANSISTOR 2SC4178

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Ref. No. or Q'ty	Part No.	SPDescription
Q123	8-729-117-72 s	TRANSISTOR 2SC4178
Q124	8-729-117-72 s	TRANSISTOR 2SC4178
Q125	8-729-117-72 s	TRANSISTOR 2SC4178
Q126	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q127	8-729-117-72 s	TRANSISTOR 2SC4178
Q128	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q151	8-729-117-72 s	TRANSISTOR 2SC4178
Q161	8-729-117-72 s	TRANSISTOR 2SC4178
Q162	8-729-905-12 s	TRANSISTOR DTA144EU
Q163	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q164	8-729-117-72 s	TRANSISTOR 2SC4178
Q165	8-729-905-12 s	TRANSISTOR DTA144EU
Q167	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q168	8-729-117-72 s	TRANSISTOR 2SC4178
Q169	8-729-117-72 s	TRANSISTOR 2SC4178
Q181	8-729-117-72 s	TRANSISTOR 2SC4178
Q182	8-729-905-12 s	TRANSISTOR DTA144EU
Q183	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q184	8-729-117-72 s	TRANSISTOR 2SC4178
Q185	8-729-905-12 s	TRANSISTOR DTA144EU
Q186	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q187	8-729-117-72 s	TRANSISTOR 2SC4178
Q188	8-729-905-12 s	TRANSISTOR DTA144EU
Q189	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q190	8-729-117-72 s	TRANSISTOR 2SC4178
Q191	8-729-117-72 s	TRANSISTOR 2SC4178
Q192	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q193	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q194	8-729-117-72 s	TRANSISTOR 2SC4178
Q201	8-729-905-12 s	TRANSISTOR DTA144EU
Q204	8-729-905-12 s	TRANSISTOR DTA144EU
Q205	8-729-905-12 s	TRANSISTOR DTA144EU
Q211	8-729-117-72 s	TRANSISTOR 2SC4178
Q212	8-729-117-72 s	TRANSISTOR 2SC4178
Q213	8-729-117-72 s	TRANSISTOR 2SC4178
Q214	8-729-117-72 s	TRANSISTOR 2SC4178
Q215	8-729-117-72 s	TRANSISTOR 2SC4178
Q241	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q250	8-729-905-18 s	TRANSISTOR DTC144EU
Q252	8-729-905-18 s	TRANSISTOR DTC144EU
Q261	8-729-117-72 s	TRANSISTOR 2SC4178
Q262	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q263	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q264	8-729-117-72 s	TRANSISTOR 2SC4178
Q265	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q266	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q270	8-729-905-12 s	TRANSISTOR DTA144EU
Q291	8-729-117-72 s	TRANSISTOR 2SC4178
Q292	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q293	8-729-117-72 s	TRANSISTOR 2SC4178
Q294	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q321	8-729-117-72 s	TRANSISTOR 2SC4178
Q322	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q323	8-729-117-72 s	TRANSISTOR 2SC4178
Q324	8-729-117-72 s	TRANSISTOR 2SC4178
Q325	8-729-117-72 s	TRANSISTOR 2SC4178
Q326	8-729-117-72 s	TRANSISTOR 2SC4178
Q327	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q328	8-729-143-07 s	TRANSISTOR 2SA1610-YY33

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Ref. No. or Q'ty	Part No.	SPDescription
Q329	8-729-117-72 s	TRANSISTOR 2SC4178
Q351	8-729-117-72 s	TRANSISTOR 2SC4178
Q352	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q420	8-729-117-32 s	TRANSISTOR 2SC4177
Q421	8-729-117-72 s	TRANSISTOR 2SC4178
Q422	8-729-117-72 s	TRANSISTOR 2SC4178
Q423	8-729-117-72 s	TRANSISTOR 2SC4178
Q424	8-729-117-72 s	TRANSISTOR 2SC4178
Q425	8-729-117-72 s	TRANSISTOR 2SC4178
Q426	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q427	8-729-117-72 s	TRANSISTOR 2SC4178
Q428	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q461	8-729-117-72 s	TRANSISTOR 2SC4178
Q462	8-729-905-12 s	TRANSISTOR DTA144EU
Q463	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q464	8-729-117-72 s	TRANSISTOR 2SC4178
Q465	8-729-905-12 s	TRANSISTOR DTA144EU
Q466	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q467	8-729-117-72 s	TRANSISTOR 2SC4178
Q468	8-729-117-72 s	TRANSISTOR 2SC4178
Q501	8-729-905-12 s	TRANSISTOR DTA144EU
Q504	8-729-905-12 s	TRANSISTOR DTA144EU
Q505	8-729-905-12 s	TRANSISTOR DTA144EU
Q513	8-729-117-72 s	TRANSISTOR 2SC4178
Q514	8-729-117-72 s	TRANSISTOR 2SC4178
Q515	8-729-117-72 s	TRANSISTOR 2SC4178
Q541	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q550	8-729-905-18 s	TRANSISTOR DTC144EU
Q552	8-729-905-18 s	TRANSISTOR DTC144EU
Q561	8-729-117-72 s	TRANSISTOR 2SC4178
Q563	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q570	8-729-905-12 s	TRANSISTOR DTA144EU
Q591	8-729-117-72 s	TRANSISTOR 2SC4178
Q592	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q621	8-729-117-72 s	TRANSISTOR 2SC4178
Q622	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q623	8-729-117-72 s	TRANSISTOR 2SC4178
Q624	8-729-117-72 s	TRANSISTOR 2SC4178
Q625	8-729-117-72 s	TRANSISTOR 2SC4178
Q626	8-729-117-72 s	TRANSISTOR 2SC4178
Q627	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q628	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q629	8-729-117-72 s	TRANSISTOR 2SC4178
Q651	8-729-117-72 s	TRANSISTOR 2SC4178
Q652	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q701	8-729-117-32 s	TRANSISTOR 2SC4177
Q702	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q703	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q704	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q705	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q706	8-729-143-07 s	TRANSISTOR 2SA1610-YY33
Q707	8-729-904-41 s	TRANSISTOR FMY3
Q708	8-729-904-41 s	TRANSISTOR FMY3
Q709	8-729-117-32 s	TRANSISTOR 2SC4177
Q710	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q711	8-729-117-32 s	TRANSISTOR 2SC4177
Q712	8-729-904-41 s	TRANSISTOR FMY3
Q713	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q714	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6

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Ref. No. or Q'ty	Part No.	SPDescription
Q715	8-729-117-32 s	TRANSISTOR 2SC4177
Q716	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q717	8-729-117-32 s	TRANSISTOR 2SC4177
Q718	8-729-117-32 s	TRANSISTOR 2SC4177
Q719	8-729-117-32 s	TRANSISTOR 2SC4177
Q728	8-729-117-32 s	TRANSISTOR 2SC4177
Q729	8-729-117-32 s	TRANSISTOR 2SC4177
Q730	8-729-117-32 s	TRANSISTOR 2SC4177
Q731	8-729-117-32 s	TRANSISTOR 2SC4177
Q732	8-729-117-32 s	TRANSISTOR 2SC4177
Q733	8-729-117-32 s	TRANSISTOR 2SC4177
Q734	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q735	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q736	8-729-117-32 s	TRANSISTOR 2SC4177
Q737	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q738	8-729-117-32 s	TRANSISTOR 2SC4177
Q739	8-729-117-32 s	TRANSISTOR 2SC4177
Q740	8-729-143-14 s	TRANSISTOR 2SC4176-B35
Q741	8-729-117-32 s	TRANSISTOR 2SC4177
Q742	8-729-117-32 s	TRANSISTOR 2SC4177
Q743	8-729-117-32 s	TRANSISTOR 2SC4177
Q746	8-729-117-32 s	TRANSISTOR 2SC4177
Q747	8-729-117-32 s	TRANSISTOR 2SC4177
Q748	8-729-117-32 s	TRANSISTOR 2SC4177
Q749	8-729-117-32 s	TRANSISTOR 2SC4177
Q750	8-729-117-32 s	TRANSISTOR 2SC4177
Q751	8-729-117-32 s	TRANSISTOR 2SC4177
Q752	8-729-117-32 s	TRANSISTOR 2SC4177
Q753	8-729-117-32 s	TRANSISTOR 2SC4177
Q754	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q755	8-729-117-32 s	TRANSISTOR 2SC4177
Q756	8-729-117-32 s	TRANSISTOR 2SC4177
Q757	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q758	8-729-117-32 s	TRANSISTOR 2SC4177
Q759	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q760	8-729-117-32 s	TRANSISTOR 2SC4177
Q761	8-729-117-32 s	TRANSISTOR 2SC4177
Q762	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q763	8-729-117-32 s	TRANSISTOR 2SC4177
Q764	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q765	8-729-209-06 s	TRANSISTOR 2SC4213-A
Q766	8-729-117-32 s	TRANSISTOR 2SC4177
Q767	8-729-140-63 s	TRANSISTOR 2SA1611-M5M6
Q768	8-729-905-18 s	TRANSISTOR DTC144EU
Q770	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q771	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q772	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q773	8-729-118-56 s	TRANSISTOR 2SK852-X2
Q1001	8-729-904-04 s	TRANSISTOR FMS2
Q1002	8-729-923-06 s	TRANSISTOR FMW8
Q1003	8-729-903-82 s	TRANSISTOR FMW2
Q1004	8-729-931-46 s	TRANSISTOR FMW7
Q1005	8-729-907-26 s	TRANSISTOR IMX110
Q2001	8-729-904-04 s	TRANSISTOR FMS2
Q2002	8-729-923-06 s	TRANSISTOR FMW8
Q2003	8-729-903-82 s	TRANSISTOR FMW2
Q2004	8-729-931-46 s	TRANSISTOR FMW7
Q2005	8-729-907-26 s	TRANSISTOR IMX110
Q3001	8-729-904-04 s	TRANSISTOR FMS2

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Ref. No. or Q'ty	Part No.	SPDescription
Q3002	8-729-923-06 s	TRANSISTOR FMW8
Q3003	8-729-903-82 s	TRANSISTOR FMW2
Q3004	8-729-931-46 s	TRANSISTOR FMW7
Q3005	8-729-907-26 s	TRANSISTOR IMX110
R2	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R3	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R4	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R5	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R7	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R8	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R9	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R10	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R11	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R12	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R13	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R14	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R15	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R16	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R18	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R19	1-216-113-00 s	METAL, CHIP 470K 5% 1/10W
R22	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R23	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R24	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R30	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R31	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R32	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R33	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R52	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R53	1-216-648-11 s	METAL, CHIP 750 0.5% 1/10W
R54	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R55	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R96	1-215-435-00 s	METAL, CHIP 3.9K 1% 1/4W
R97	1-215-440-00 s	METAL, CHIP 6.2K 1% 1/4W
R99	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R100	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R101	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R102	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R103	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R104	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R105	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R106	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R107	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R108	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R109	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R110	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R111	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R112	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R113	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R114	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R115	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R116	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R117	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R118	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R119	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R120	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R121	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R122	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R123	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R124	1-216-025-00 s	METAL, CHIP 100 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R125	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R126	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R127	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R128	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R129	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R130	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R131	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R132	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R133	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R134	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R135	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R136	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R137	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R138	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R139	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R140	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R141	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R143	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R144	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R145	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R146	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R147	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R148	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R149	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R150	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R152	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R161	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R162	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R163	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R164	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R165	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R166	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R167	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R168	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R169	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R170	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R171	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R172	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R173	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R174	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R175	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R176	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R181	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R182	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R183	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R184	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R185	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R186	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R187	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R188	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R189	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R190	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R191	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R192	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R193	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R194	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R195	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R196	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R197	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R198	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R199	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R200	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R201	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R202	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R203	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R204	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R205	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R206	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R207	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R208	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R209	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R210	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R211	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R212	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R213	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R214	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R215	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R216	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R217	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R218	1-216-063-00	s METAL, CHIP 3.9K 5% 1/10W
R219	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R220	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R221	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R222	1-216-039-00	s METAL, CHIP 390 5% 1/10W
R223	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R224	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R225	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R226	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R227	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R228	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R231	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R232	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R233	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R234	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R235	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R236	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R237	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R241	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R242	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R243	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R244	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R245	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R246	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R247	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R248	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R250	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R251	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R252	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R254	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R255	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R256	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R261	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R262	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R263	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R264	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R265	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R266	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R267	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R268	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R269	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R270	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R271	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R272	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R273	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R274	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R275	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R276	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R282	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R289	1-216-113-00 s	METAL, CHIP 470K 5% 1/10W
R290	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R291	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R292	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
R293	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R294	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R295	1-216-665-11 s	METAL, CHIP 3.9K 0.5% 1/10W
R296	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R297	1-216-689-11 s	METAL, CHIP 39K 0.5% 1/10W
R298	1-216-685-11 s	METAL, CHIP 27K 0.5% 1/10W
R299	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R300	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R301	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R302	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R303	1-216-037-00 s	METAL, CHIP 330 5% 1/10W
R304	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R305	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R306	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R307	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R308	1-216-037-00 s	METAL, CHIP 330 5% 1/10W
R309	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R310	1-216-695-11 s	METAL, CHIP 68K 0.5% 1/10W
R311	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R312	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R313	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R314	1-216-650-11 s	METAL, CHIP 910 0.5% 1/10W
R315	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R316	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R317	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R318	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R319	1-208-789-11 s	METAL 2K 0.5% 1/10W
R320	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R321	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R322	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R323	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R324	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R325	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R326	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R327	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R328	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R329	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R330	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R331	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R332	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R333	1-216-055-00 s	METAL, CHIP 1.8K 5% 1/10W
R334	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R335	1-216-055-00 s	METAL, CHIP 1.8K 5% 1/10W
R336	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R337	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R338	1-216-665-11 s	METAL, CHIP 3.9K 0.5% 1/10W
R339	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R340	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R341	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R342	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R343	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R344	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R351	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R354	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R355	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R356	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R358	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R359	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R360	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R361	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R362	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R363	1-216-063-00 s	METAL, CHIP 3.9K 5% 1/10W
R364	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R365	1-216-063-00 s	METAL, CHIP 3.9K 5% 1/10W
R368	1-216-664-11 s	METAL, CHIP 3.6K 0.5% 1/10W
R390	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R391	1-216-620-11 s	METAL, CHIP 51 0.5% 1/10W
R392	1-216-053-00 s	METAL, CHIP 1.5K 5% 1/10W
R395	1-216-089-91 s	METAL, CHIP 47K 5% 1/10W
R396	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R397	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R400	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R401	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R402	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R403	1-216-629-11 s	METAL, CHIP 120 0.5% 1/10W
R404	1-216-633-11 s	METAL, CHIP 180 0.5% 1/10W
R405	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R406	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R407	1-216-629-11 s	METAL, CHIP 120 0.5% 1/10W
R408	1-216-633-11 s	METAL, CHIP 180 0.5% 1/10W
R409	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R410	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R411	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R412	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R413	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R414	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R415	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R418	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R419	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R420	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R421	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R422	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R423	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R424	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R425	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R426	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R427	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R428	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R429	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R430	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R431	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R432	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R433	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W
R434	1-216-638-11 s	METAL, CHIP 300 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R435	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R436	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R437	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R438	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R439	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R440	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R441	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R442	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R443	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R444	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R445	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R446	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R447	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R448	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R449	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R450	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R452	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R456	1-216-637-11	s METAL, CHIP 270 0.5% 1/10W
R461	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R462	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R463	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R464	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R465	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R466	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R467	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R468	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R469	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R470	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R471	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R472	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R473	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R474	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R475	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R476	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R509	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R510	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R511	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R512	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R513	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R514	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R515	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R516	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R517	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R519	1-216-637-11	s METAL, CHIP 270 0.5% 1/10W
R522	1-216-619-11	s METAL, CHIP 47 0.5% 1/10W
R524	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R525	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R526	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R527	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R528	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R531	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R532	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R533	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R534	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R535	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R536	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R537	1-216-121-00	s METAL, CHIP 1M 5% 1/10W
R541	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R542	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R543	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R544	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R545	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R551	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R552	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R554	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R555	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R556	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R558	1-216-295-00	s METAL, CHIP 0 5% 1/10W
R561	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R562	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R563	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R564	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R565	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R566	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R567	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R568	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R569	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R570	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R571	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R577	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R588	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R589	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R590	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R591	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R592	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R593	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R594	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R595	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R596	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R597	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R598	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R599	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R600	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R601	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R602	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R603	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R604	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R621	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R622	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R623	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R624	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R625	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R626	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R627	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R628	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R629	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R630	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R631	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R632	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R633	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R634	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R635	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R636	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R637	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R638	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R640	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R641	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R642	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R644	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R649	1-208-803-11 s	METAL 7.5K 0.5% 1/10W
R651	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R654	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R655	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R656	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R658	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R659	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R660	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R661	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R690	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R691	1-216-620-11 s	METAL, CHIP 51 0.5% 1/10W
R695	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R696	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R697	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R701	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R702	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R703	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R704	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R705	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R706	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R707	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R708	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
R709	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
R710	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R711	1-216-685-11 s	METAL, CHIP 27K 0.5% 1/10W
R712	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R713	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R714	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R715	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R716	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R717	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R718	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R719	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R720	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R721	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R722	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R723	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R724	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R725	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R726	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R727	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R728	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R729	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R730	1-216-620-11 s	METAL, CHIP 51 0.5% 1/10W
R731	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R732	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R733	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R734	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R735	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R736	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R737	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R738	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R739	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R740	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R741	1-216-661-11 s	METAL, CHIP 2.7K 0.5% 1/10W
R742	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R743	1-216-660-11 s	METAL, CHIP 2.4K 0.5% 1/10W
R744	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R745	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R746	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R747	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R748	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R749	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R750	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R753	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R754	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R755	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R760	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R761	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R762	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R763	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R764	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R765	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R766	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R767	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R768	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R769	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R770	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R771	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R772	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R773	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R774	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R775	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R776	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R777	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R778	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R779	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R780	1-216-113-00 s	METAL, CHIP 470K 5% 1/10W
R781	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R782	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R783	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R784	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R785	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R786	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R792	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R796	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R802	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R803	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R804	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R805	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R806	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R807	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
R808	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R809	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R810	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R811	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R812	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R813	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R814	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R815	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R816	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R817	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R818	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R819	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R820	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R821	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R822	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R823	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R824	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R825	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R826	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R827	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R828	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R829	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R830	1-216-121-00 s	METAL, CHIP 1M 5% 1/10W
R831	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R832	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R833	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R834	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R835	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R836	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R837	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R838	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R839	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R840	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R841	1-216-097-00 s	METAL, CHIP 100K 5% 1/10W
R842	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R843	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R844	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R845	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R846	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R847	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R848	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R849	1-216-646-11 s	METAL, CHIP 620 0.5% 1/10W
R850	1-216-661-11 s	METAL, CHIP 2.7K 0.5% 1/10W
R851	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R852	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R853	1-216-045-00 s	METAL, CHIP 680 5% 1/10W
R854	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R855	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R856	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R857	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R858	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R859	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R860	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R861	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R862	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R863	1-216-017-00 s	METAL, CHIP 47 5% 1/10W
R864	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R865	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R866	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R867	1-216-682-11 s	METAL, CHIP 20K 0.5% 1/10W
R868	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R869	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R870	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R871	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R872	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R873	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R874	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R875	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R876	1-216-295-00 s	METAL, CHIP 0 5% 1/10W
R877	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R878	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R879	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R880	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R881	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SPDescription
R882	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R883	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R884	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R885	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R886	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R887	1-216-037-00 s	METAL, CHIP 330 5% 1/10W
R888	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R889	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R890	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R891	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R892	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R893	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R894	1-216-037-00 s	METAL, CHIP 330 5% 1/10W
R895	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R896	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R897	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R898	1-216-033-00 s	METAL, CHIP 220 5% 1/10W
R899	1-216-057-00 s	METAL, CHIP 2.2K 5% 1/10W
R901	1-216-073-00 s	METAL, CHIP 10K 5% 1/10W
R902	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R903	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R904	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R905	1-216-085-00 s	METAL, CHIP 33K 5% 1/10W
R906	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R908	1-216-089-00 s	METAL, CHIP 47K 5% 1/10W
R909	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R910	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R911	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R912	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R913	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R914	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
R915	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R916	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R917	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R918	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R919	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R920	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R922	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R923	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R924	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R925	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R927	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R928	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R929	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R930	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R931	1-216-653-11 s	METAL, CHIP 1.2K 0.5% 1/10W
R932	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R933	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R934	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R935	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R936	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R937	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R939	1-216-025-00 s	METAL, CHIP 100 5% 1/10W
R940	1-216-065-00 s	METAL, CHIP 4.7K 5% 1/10W
R941	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R942	1-216-049-00 s	METAL, CHIP 1K 5% 1/10W
R944	1-216-624-11 s	METAL, CHIP 75 0.5% 1/10W
R945	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W
R946	1-216-081-00 s	METAL, CHIP 22K 5% 1/10W

(VP-33AP BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
R947	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R948	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R949	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R950	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R951	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R952	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R953	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R955	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R956	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R960	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R961	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R962	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R963	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R964	1-216-097-00	s METAL, CHIP 100K 5% 1/10W
R965	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R966	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R967	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R968	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R970	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R971	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R972	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R980	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R981	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R1001	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R1002	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R1003	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R1004	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R1005	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R2001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R2002	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R2003	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R2004	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R2005	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R3001	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R3002	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R3003	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R3004	1-216-017-00	s METAL, CHIP 47 5% 1/10W
R3005	1-216-027-00	s METAL, CHIP 120 5% 1/10W
RV102	1-241-630-11	s RES, ADJ, CARBON 10K
RV103	1-241-630-11	s RES, ADJ, CARBON 10K
RV106	1-241-630-11	s RES, ADJ, CARBON 10K
RV107	1-241-630-11	s RES, ADJ, CARBON 10K
RV108	1-241-761-11	s RES, ADJ, CARBON 1K
RV109	1-241-761-11	s RES, ADJ, CARBON 1K
RV111	1-241-630-11	s RES, ADJ, CARBON 10K
RV112	1-238-802-11	s RES, ADJ, CERMET 10K
RV113	1-241-630-11	s RES, ADJ, CARBON 10K
RV201	1-241-630-11	s RES, ADJ, CARBON 10K
RV202	1-241-630-11	s RES, ADJ, CARBON 10K
RV203	1-241-630-11	s RES, ADJ, CARBON 10K
RV204	1-238-801-11	s RES, ADJ, CERMET 5K
RV205	1-238-801-11	s RES, ADJ, CERMET 5K
RV206	1-238-802-11	s RES, ADJ, CERMET 10K
RV402	1-241-630-11	s RES, ADJ, CARBON 10K
RV403	1-241-630-11	s RES, ADJ, CARBON 10K
RV406	1-241-630-11	s RES, ADJ, CARBON 10K
RV407	1-241-630-11	s RES, ADJ, CARBON 10K
RV408	1-241-761-11	s RES, ADJ, CARBON 1K

(VP-33AP BOARD)

Ref. No. or Q'ty	Part No.	SPDescription
RV409	1-241-761-11	s RES, ADJ, CARBON 1K
RV412	1-241-630-11	s RES, ADJ, CARBON 10K
RV413	1-241-630-11	s RES, ADJ, CARBON 10K
RV501	1-241-630-11	s RES, ADJ, CARBON 10K
RV502	1-238-802-11	s RES, ADJ, CERMET 10K
RV503	1-241-630-11	s RES, ADJ, CARBON 10K
RV504	1-238-802-11	s RES, ADJ, CERMET 10K
RV505	1-238-802-11	s RES, ADJ, CERMET 10K
RV506	1-241-630-11	s RES, ADJ, CARBON 10K
RV701	1-241-761-11	s RES, ADJ, CARBON 1K
RV703	1-238-799-11	s RES, ADJ, CERMET 1K
RV704	1-238-799-11	s RES, ADJ, CERMET 1K
RV705	1-238-799-11	s RES, ADJ, CERMET 1K
RV706	1-238-799-11	s RES, ADJ, CERMET 1K
RV707	1-238-799-11	s RES, ADJ, CERMET 1K
RV708	1-238-799-11	s RES, ADJ, CERMET 1K
RV709	1-238-798-11	s RES, ADJ, CERMET 500
RV712	1-238-800-11	s RES, ADJ, CERMET 2K
RV713	1-238-019-11	s RES, ADJ, CARBON 47K
RV714	1-238-019-11	s RES, ADJ, CARBON 47K
RV715	1-238-799-11	s RES, ADJ, CERMET 1K
RV716	1-238-799-11	s RES, ADJ, CERMET 1K
RV718	1-238-801-11	s RES, ADJ, CERMET 5K
RV719	1-238-799-11	s RES, ADJ, CERMET 1K
RV720	1-238-019-11	s RES, ADJ, CARBON 47K
RV721	1-241-628-11	s RES, ADJ, CARBON 2.2K
RV722	1-238-799-11	s RES, ADJ, CERMET 1K
RV723	1-241-628-11	s RES, ADJ, CARBON 2.2K
RV724	1-238-799-11	s RES, ADJ, CERMET 1K
RV725	1-241-763-11	s RES, ADJ, CARBON 4.7K
RV726	1-241-763-11	s RES, ADJ, CARBON 4.7K
S101	1-570-857-11	s SWITCH, SLIDE
S401	1-570-857-11	s SWITCH, SLIDE
S701	1-570-857-11	s SWITCH, SLIDE
S702	1-570-857-11	s SWITCH, SLIDE
S703	1-570-857-11	s SWITCH, SLIDE
TH301	1-800-199-00	s THERMISTOR, S-1250
TH601	1-800-199-00	s THERMISTOR, S-1250

VR-116A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-039-21	o PRINTED CIRCUIT BOARD, VR-116A
CN400	1-506-483-21	s PIN, CONNECTOR 4P
CN401	1-506-485-11	s PIN, CONNECTOR 6P
CN402	1-506-485-11	s PIN, CONNECTOR 6P
CN405	1-569-345-11	s CONNECTOR, BOARD TO BOARD 21P
CN407	1-564-013-11	o CONNECTOR 3P, MALE
J1	1-507-863-51	s JACK, LARGE TYPE
R5	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R6	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R7	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R8	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
RV2	1-241-248-11	s RES WITH SW, VAR, CARBON 10K
RV4	1-241-248-11	s RES WITH SW, VAR, CARBON 10K
RV5	1-241-577-11	s RES WITH SW, VAR, CARBON 20K/20K

VR-117A BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	1-640-044-21	o PRINTED CIRCUIT BOARD, VR-117A
C5	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C6	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
CN501	1-568-935-11	o CONNECTOR 8P, MALE
RV1	1-241-578-11	s RES, VAR, CARBON 10K/10K

FRAME

Ref. No. or Q'ty	Part No.	SPDescription
1pc	A-6050-841-A	s HEAD DRUM ASSY, DBH-28A-R
1pc	A-6762-463-A	s UPPER DRUM ASSY, DBR-28-R
1pc	Δ 1-413-675-11	s REGULATOR, SWITCHING
2pcs	1-559-907-11	s WIRE, FLEXIBLE CARD
1pc	1-690-106-11	s WIRE, FLEXIBLE CARD 5P
1pc	1-806-682-71	s SENSOR, CONDENSATION
CN001	Δ 1-580-375-21	o INLET, AC 3P, MALE
CN1F (to AU-150 board)		1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
CN1F (to Drum Motor)		1-580-938-11 o HOUSING, 15P 1-569-191-11 o CONTACT, FEMALE AWG22-26
CN1F (to PTC-39 board)		1-562-151-11 o HOUSING, 6P 1-564-026-00 o CONTACT, FEMALE AWG26-30
CN1F (to RP-57 board)		1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
CN1F (to Switching Reg.)		1-562-285-11 o HOUSING, 4P 1-562-210-11 o CONTACT, FEMALE AWG18-22
CN2F (to AU-148 board)		1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
CN2F (to AU-149 board)		1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
CN2F (to AU-150 board)		1-569-202-11 o HOUSING, 9P 1-569-193-21 o CONTACT, FEMALE AWG24-30 1-569-191-11 o CONTACT, FEMALE AWG22-26
CN2F (to KY-210 board)		1-562-151-11 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE AWG26-30
CN2F (to RP-57 board)		1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
CN2F (to Switching Reg.)		1-562-286-11 o HOUSING, 5P 1-562-210-11 o CONTACT, FEMALE AWG18-22
CN3F (to Switching Reg.)		1-562-833-11 o HOUSING, 7P 1-562-210-11 o CONTACT, FEMALE AWG18-22
CN4F (to Switching Reg.)		1-562-287-11 o HOUSING, 6P 1-562-210-11 o CONTACT, FEMALE AWG18-22
CN101FF (to RP-57 board)		1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
CN102F (to RP-57 board)		1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30

(FRAME)

Ref. No. or Q'ty	Part No.	SPDescription
CN260F	(to MB-322 board)	
	1-562-258-11 o	HOUSING, 10P
	1-562-260-11 o	CONTACT, IL-S, FRAME AWG24-28
CN292F	(to MB-322 board)	
	1-562-286-11 o	HOUSING, 5P
	1-562-210-11 o	CONTACT, FEMALE AWG18-22
CN293F	(to MB-322 board)	
	1-562-833-11 o	HOUSING, 7P
	1-562-210-11 o	CONTACT, FEMALE AWG18-22
CN294F	(to MB-322 board)	
	1-562-287-11 o	HOUSING, 6P
	1-562-210-11 o	CONTACT, FEMALE AWG18-22
CN300F	(to DR-118 board)	
	1-562-258-11 o	HOUSING, 10P
	1-562-260-11 o	CONTACT, IL-S, FRAME AWG24-28
CN315F	(to DR-118 board)	
	1-569-196-11 o	HOUSING, 3P
	1-569-193-11 o	CONTACT, FEMALE
	1-569-191-11 o	CONTACT, FEMALE AWG22-26
CN323F	(to DR-118 board)	
	1-569-196-11 o	HOUSING, 3P
	1-569-193-11 o	CONTACT, FEMALE
	1-569-191-11 o	CONTACT, FEMALE AWG22-26
CN360F	(to DR-118 board)	
	1-569-208-11 o	HOUSING, 15P
	1-569-193-11 o	CONTACT, FEMALE
CN509F	(to SW-444 board)	
	1-569-195-11 o	HOUSING, 2P
	1-569-193-11 o	CONTACT, FEMALE
CN926F	(to RM-82 board)	
	1-562-149-11 o	HOUSING, 4P
	1-564-026-00 o	CONTACT, FEMALE AWG26-30
CN935F	(to CL-25 board)	
	1-569-195-11 o	HOUSING, 2P
	1-569-193-11 o	CONTACT, FEMALE
CN968F	(to Head Drum)	
	1-569-199-11 o	HOUSING, 6P
	1-569-194-11 o	CONTACT, FEMALE AWG24-30
CN969F	(to Head Drum)	
	1-569-199-11 o	HOUSING, 6P
	1-569-194-11 o	CONTACT, FEMALE AWG24-30
	1-569-192-11 o	CONTACT, FEMALE AWG22-26
CN998F	(to AC-113 board)	
	1-562-285-11 o	HOUSING, 4P
	1-562-210-11 o	CONTACT, FEMALE AWG18-22
CN999F	(to AC-113 board)	
	1-562-285-11 o	HOUSING, 4P
	1-562-210-11 o	CONTACT, FEMALE AWG18-22
HO01	8-825-776-21 s	HEAD, PS244-2103E "AUDIO/TC"
HO04	8-825-776-41 s	HEAD, PS244-21C "CLT"
LO01	1-543-316-31 s	HEAD, SENSING
LO02	1-543-316-31 s	HEAD, SENSING

(FRAME)

Ref. No. or Q'ty	Part No.	SPDescription
M001	1-541-431-31 s	FAN, DC
M002	8-835-179-01 s	MOTOR, DC MCB2B15
M003	8-835-179-01 s	MOTOR, DC MCB2B15
M004	A-6737-207-A s	RM ASSY "T-REEL"
M005	A-6737-207-A s	RM ASSY "S-REEL"
M006	8-835-179-01 s	MOTOR, DC MCB2B15
M007	8-835-445-01 s	MOTOR, DC SCV-0301A
ME001	1-520-494-11 s	METER, VIDEO LEVEL
ME002	1-520-393-21 s	METER, AUDIO LEVEL
ME003	1-520-393-21 s	METER, AUDIO LEVEL
PM001	1-454-372-11 s	SOLENOIDE PLUNGER
PM002	1-454-417-41 s	SOLENOIDE PLUNGER
PM003	1-454-417-41 s	SOLENOIDE PLUNGER
PM004	1-454-338-00 s	SOLENOIDE PLUNGER
S001	▲ 1-570-117-11 s	SWITCH, ROCKER "POWER"

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-555-873-13	o CABLE, REMOTE 9P (RCC-5G) 5m
1pc	Δ 1-590-910-11	s CORD, POWER 3P
1pc	3-173-256-03	o INDIVIDUAL CARTON
1pc	3-701-616-00	s BAG, POLYETHYLENE
1pc	3-701-649-00	s BAG, POLYETHYLENE
1pc	3-721-869-03	o CUSHION (UPPER)
1pc	3-721-870-02	o CUSHION (LOWER)
1pc	3-721-888-01	o SPACER (SIDE)
1pc	3-721-889-01	o SLEEVE (A)
1pc	3-721-890-01	o SLEEVE (B)
1pc	Δ 3-753-961-13	s MANUAL, INSTRUCTION (English)
1pc	3-753-961-42	s MANUAL, INSTRUCTION (French)
1pc	3-753-961-52	s MANUAL, INSTRUCTION (German)
1pc	3-753-961-61	o MANUAL, INSTRUCTION (Italian)
4pcs	7-682-665-09	s SCREW +PSW 4X16

OPTIONAL FIXTURE

Part No.	SP Description
A-6766-389-A	o EXTENTION BOARD (L), EX-286
J-6001-820-A	o DURM ECCENTRICITY GAUGE (3)
J-6001-830-A	o DURM ECCENTRICITY GAUGE (2)
J-6001-840-A	o DURM ECCENTRICITY GAUGE (1)
J-6031-830-A	o MULTI CONNECTOR CABLE (DOBNC)
J-6035-070-A	o EXTENTION TOOL (for PLCC socket)
J-6080-008-A	o CASSETTE REFERENCE PLATE
J-6080-011-A	o REEL TEBLE TENSION GAUGE
J-6080-029-A	o ADJUSTMENT MIRROR
J-6080-840-A	o ADJUSTMENT MIRROR
J-6086-570-A	o REFERENCE FLAT PLATE
J-6087-000-A	o DURM ECCENTRICITY GAUGE (5)
J-6320-870-A	o REEL MOTOR SHAFT SLANTNESS CHECK FIXTURE
J-6152-450-A	o WIRE CLEARANCE GAUGE
J-6320-680-A	o REL TABLE HEIGHT GAUGE
J-6320-880-A	o CASSETTE BASE PLATE (L)
J-6321-500-A	o TAPE GUIDE ADJUSTMENT DRIVER
J-6322-370-A	o TENSION REGULATOR POSITIONING TOOL
J-6325-530-A	o DURM ECCENTRICITY GAUGE (6)
J-6327-850-A	o DIAL TENSION GAUGE (50g)
J-6327-930-A	o TENSION MEASUREMENT TAPE
J-6338-130-A	o EXTENSION BOARD (S), EX-287
2-034-697-00	o CLEANING PIECE
7-661-018-18	o OIL
7-662-001-41	o MOLYTON GREASE, NO. 320 (30g bottle)
7-662-010-04	o GREASE, SGL-505 (20g)
7-700-736-01	o L-SHAPED HEXAGONAL WRENCH (d:1.27mm)
7-700-736-05	o L-SHAPED HEXAGONAL WRENCH (d:1.5mm)
7-700-736-06	o L-SHAPED HEXAGONAL WRENCH (d:0.89mm)
7-732-050-20	o TENSION SCALE (50g full scale)
7-732-050-30	o TENSION SCALE (100g full scale)
8-960-096-51	o ALIGNMENT TAPE, CR2-1B PS
8-960-096-86	o ALIGNMENT TAPE, CR8-1B PS
8-960-096-91	o ALIGNMENT TAPE, CR5-1B PS
8-960-098-44	o ALIGNMENT TAPE, CR5-2A PS
8-960-098-45	o ALIGNMENT TAPE, CR8-1A PS
9-911-053-00	o THICKNESS GAUGE
9-919-573-01	o CLEANING FLUID
STANDARD	TENTELOMETER (T2-H7-UMC)
PRODUCTS	

NOTE

This Switching Regulator is critical component to safety.

Replace only with same components as specified.

A ASSY

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-833-12	o PRINTED CIRCUIT BOARD "SOPS1019A"
12pcs	1-543-060-00	s CORE
1pc	2-430-773-01	s SCREW, M3x6
2pcs	2-434-297-01	o BRACKET (DP-UR17)
1pc	2-625-674-02	o PLATE (1019), GROUND
2pcs	2-625-675-01	s RUBBER (1019), INSULATING
1pc	2-625-676-01	s INSULATOR (IS-1019C)
1pc	2-625-680-01	o HEAT SINK (HS-1019B)
1pc	2-625-681-01	o HEAT SINK (HS-1019A)
7pcs	3-899-248-31	s SCREW (M3x12)
2pcs	4-382-854-11	s SCREW (M3x10), P. SW(+)
1pc	7-685-647-79	s SCREW +BV 3x10, TYPE 2, IT-3
2pcs	7-682-649-09	s SCREW +PS 3x10
C151	1-126-410-11	s ELECT 47uF 99% 400V
C152	1-136-165-00	s FILM 0.1uF 5% 50V
C153	1-124-477-11	s ELECT 47uF 20% 25V
C154	1-136-165-00	s FILM 0.1uF 5% 50V
C155	1-136-165-00	s FILM 0.1uF 5% 50V
C156	1-161-741-00	s CERAMIC 0.001uF 10% 400V
C157	1-136-207-11	s FILM 0.047uF 10% 630V
C158	1-124-478-11	s ELECT 100uF 20% 25V
C159	1-136-346-11	s FILM 0.22uF 10% 250V
C160	1-136-207-11	s FILM 0.047uF 10% 630V
C161	1-136-165-00	s FILM 0.1uF 5% 50V
C162	1-126-410-11	s ELECT 47uF 99% 400V
C163	1-130-471-00	s MYLAR 0.001uF 5% 50V
C201	1-102-228-00	s CERAMIC 470PF 10% 500V
C202	1-128-374-11	s ELECT 1200uF 20% 10V
C203	1-124-604-00	s ELECT 330uF 20% 10V
C204	1-136-165-00	s FILM 0.1uF 5% 50V
C205	1-102-228-00	s CERAMIC 470PF 10% 500V
C206	1-101-821-00	s CERAMIC 0.0022uF 500V
C207	1-101-821-00	s CERAMIC 0.0022uF 500V
C208	1-101-821-00	s CERAMIC 0.0022uF 500V
C209	1-101-821-00	s CERAMIC 0.0022uF 500V
C210	1-128-373-11	s ELECT 1500uF 20% 6.3V
C211	1-128-372-11	s ELECT 470uF 20% 6.3V
C212	1-136-165-00	s FILM 0.1uF 5% 50V
C213	1-102-228-00	s CERAMIC 470PF 10% 500V
C214	1-101-821-00	s CERAMIC 0.0022uF 500V
C215	1-101-821-00	s CERAMIC 0.0022uF 500V
C216	1-128-373-11	s ELECT 1500uF 20% 6.3V
C217	1-128-372-11	s ELECT 470uF 20% 6.3V
C218	1-136-165-00	s FILM 0.1uF 5% 50V
C219	1-130-483-00	s MYLAR 0.01uF 5% 50V
C220	1-124-120-11	s ELECT 220uF 20% 25V
C221	1-124-916-11	s ELECT 22uF 20% 25V
C222	1-130-491-00	s MYLAR 0.047uF 5% 50V
C223	1-130-483-00	s MYLAR 0.01uF 5% 50V
C224	1-136-169-00	s FILM 0.22uF 5% 50V
C225	1-102-244-00	s CERAMIC 220PF 10% 500V
C226	1-102-002-00	s CERAMIC 680PF 10% 500V
C227	1-102-002-00	s CERAMIC 680PF 10% 500V
C228	1-128-142-11	s ELECT 1500uF 20% 25V
C229	1-128-142-11	s ELECT 1500uF 20% 25V
C230	1-136-165-00	s FILM 0.1uF 5% 50V
C231	1-102-228-00	s CERAMIC 470PF 10% 500V
C232	1-101-821-00	s CERAMIC 0.0022uF 500V
C233	1-101-821-00	s CERAMIC 0.0022uF 500V

(A ASSY)

Ref. No. or Q'ty	Part No.	SP Description
C234	1-128-320-11	s ELECT 2200uF 20% 16V
C235	1-128-222-11	s ELECT 330uF 20% 16V
C236	1-136-165-00	s FILM 0.1uF 5% 50V
C237	1-102-228-00	s CERAMIC 470PF 10% 500V
C238	1-101-821-00	s CERAMIC 0.0022uF 500V
C239	1-101-821-00	s CERAMIC 0.0022uF 500V
C240	1-128-141-11	s ELECT 560uF 20% 25V
C241	1-128-375-11	s ELECT 120uF 20% 25V
C242	1-136-165-00	s FILM 0.1uF 5% 50V
C243	1-102-228-00	s CERAMIC 470PF 10% 500V
C244	1-101-821-00	s CERAMIC 0.0022uF 500V
C245	1-101-821-00	s CERAMIC 0.0022uF 500V
C246	1-128-248-11	s ELECT 1000uF 20% 25V
C247	1-128-376-11	s ELECT 220uF 20% 25V
C248	1-136-165-00	s FILM 0.1uF 5% 50V
C249	1-124-120-11	s ELECT 220uF 20% 25V
C250	1-130-483-00	s MYLAR 0.01uF 5% 50V
C251	1-123-382-00	s ELECT 3.3uF 20% 50V
C252	1-124-479-11	s ELECT 330uF 20% 25V
C253	1-136-171-00	s FILM 0.033uF 5% 50V
C254	1-124-477-11	s ELECT 47uF 20% 25V
C255	1-124-916-11	s ELECT 22uF 20% 25V
CN151	1-573-896-11	o SOCKET, CONNECTOR 12P
CN201	1-566-313-11	o PIN, CONNECTOR, 7P
CN202	1-564-216-00	o PIN, CONNECTOR, 5P
CN203	1-564-607-11	o PIN, CONNECTOR, 6P
CN204	1-508-933-00	o POST HEADER, CONNECTOR 2P
D151	8-719-911-19	s DIODE 1SS119
D152	8-719-951-30	s DIODE ERA91-02
D153	8-719-951-30	s DIODE ERA91-02
D154	8-719-200-02	s DIODE 10E-2
D155	8-719-911-19	s DIODE 1SS119
D156	8-719-313-16	s DIODE AU02A
D157	8-719-911-19	s DIODE 1SS119
D158	8-719-911-19	s DIODE 1SS119
D159	8-719-313-16	s DIODE AU02A
D201	8-719-510-39	s DIODE D10LC20U
D202	8-719-210-60	s DIODE F25P040S
D203	8-719-510-12	s DIODE D10SC4M
D204	8-719-510-12	s DIODE D10SC4M
D205	8-719-951-30	s DIODE ERA91-02
D206	8-719-110-16	s DIODE RD10ES-B1
D207	8-719-911-19	s DIODE 1SS119
D208	8-719-109-92	s DIODE RD6.2ES-B1
D209	8-719-911-19	s DIODE 1SS119
D210	8-719-109-75	s DIODE RD4.3ES-B2
D211	8-719-911-19	s DIODE 1SS119
D212	8-719-110-46	s DIODE RD16ES-B3
D213	8-719-911-19	s DIODE 1SS119
D214	8-719-911-19	s DIODE 1SS119
D215	8-719-911-19	s DIODE 1SS119
D216	8-719-510-39	s DIODE D10LC20U
D217	8-719-510-41	s DIODE D10SC9M
D218	8-719-510-72	s DIODE S3L20UF1
D219	8-719-510-39	s DIODE D10LC20U
D220	8-719-110-42	s DIODE RD15ES-B3
D222	8-719-110-57	s DIODE RD22ES-B2
D223	8-719-109-86	s DIODE RD5.1ES-B3

ITCHING REGULATOR

(A ASSY)

Ref. No. or Q'ty	Part No.	SP Description
D224	8-719-911-19	s DIODE 1SS119
D225	8-719-911-19	s DIODE 1SS119
D226	8-719-510-72	s DIODE S3L20UF1
D227	8-719-911-19	s DIODE 1SS119
F151	1-572-889-11	s SWITCH, THERMAL GUARD
F201	1-572-818-11	s SWITCH, THERMAL GUARD
IC151	8-719-820-67	s PHOTO COUPLER TLP634-D4-GB-LF2
IC152	8-719-159-90	s PHOTO COUPLER PS2652-P
IC153	8-719-159-90	s PHOTO COUPLER PS2652-P
IC201	8-759-135-80	s IC UPC358C
IC202	8-759-908-15	s IC TL431CLP
IC203	8-759-908-15	s IC TL431CLP
IC204	8-759-605-43	s IC M5231TL
IC205	8-759-632-07	s IC M5237L
IC206	8-759-604-39	s IC M5F78M12L
L151	1-414-013-11	s COIL, CHOKE 2mH
L152	1-424-574-11	s L. F. T
L153	1-424-574-11	s L. F. T
L201	1-414-012-11	s COIL, CHOKE 30uH
L202	1-424-254-31	s COIL, CHOKE (MOLDE) 4.7uH
L203	1-424-254-31	s COIL, CHOKE (MOLDE) 4.7uH
L204	1-424-254-31	s COIL, CHOKE (MOLDE) 4.7uH
L205	1-414-010-11	s COIL, CHOKE 250uH
L206	1-424-255-41	s COIL, CHOKE (MOLDE) 10uH
L207	1-414-011-11	s COIL, CHOKE 140uH
L208	1-424-255-41	s COIL, CHOKE (MOLDE) 10uH
L209	1-414-038-11	s COIL, CHOKE 150uH
L210	1-424-254-31	s COIL, CHOKE (MOLDE) 4.7uH
L211	1-424-255-41	s COIL, CHOKE (MOLDE) 10uH
PS151	1-532-637-00	s LINK, IC
PS201	1-532-637-00	s LINK, IC
Q151	8-729-923-35	s TRANSISTOR 1RFBC40
Q152	8-729-923-35	s TRANSISTOR 1RFBC40
Q201	8-729-900-80	s TRANSISTOR DTC114ES
Q202	8-729-205-02	s TRANSISTOR 2SA1150-Y
Q203	8-729-931-44	s TRANSISTOR 2SA1600
R151	1-215-901-00	s METAL 33K 5% 2W
R152	1-215-903-11	s METAL 68K 5% 2W
R153	1-215-903-11	s METAL 68K 5% 2W
R154	1-249-394-11	s CARBON 12 5% 1/4W
R155	1-249-404-00	s CARBON 82 5% 1/4W
R156	1-249-399-11	s CARBON 33 5% 1/4W
R157	1-249-421-11	s CARBON 2.2K 5% 1/4W
R158	1-249-404-00	s CARBON 82 5% 1/4W
R159	1-215-903-11	s METAL 68K 5% 2W
R160	1-215-903-11	s METAL 68K 5% 2W
R161	1-215-901-00	s METAL 33K 5% 2W
R162	1-249-441-11	s CARBON 100K 5% 1/4W
R163	1-249-394-11	s CARBON 12 5% 1/4W
R164	1-249-407-11	s CARBON 150 5% 1/4W
R165	1-249-404-00	s CARBON 82 5% 1/4W
R166	1-249-441-11	s CARBON 100K 5% 1/4W
R201	1-215-882-00	s METAL 22 5% 2W
R203	1-249-417-11	s CARBON 1K 5% 1/4W
R204	1-215-882-00	s METAL 22 5% 2W
R205	1-215-890-11	s METAL 470 5% 2W
R206	1-215-882-00	s METAL 22 5% 2W

(A ASSY)

Ref. No. or Q'ty	Part No.	SP Description
R209	1-249-427-11	s CARBON 6.8K 5% 1/4W
R210	1-249-417-11	s CARBON 1K 5% 1/4W
R211	1-249-417-11	s CARBON 1K 5% 1/4W
R212	1-249-429-11	s CARBON 10K 5% 1/4W
R213	1-249-425-11	s CARBON 4.7K 5% 1/4W
R214	1-249-425-11	s CARBON 4.7K 5% 1/4W
R215	1-249-413-11	s CARBON 470 5% 1/4W
R216	1-249-433-11	s CARBON 22K 5% 1/4W
R217	1-249-411-11	s CARBON 330 5% 1/4W
R218	1-249-432-11	s CARBON 18K 5% 1/4W
R219	1-249-423-11	s CARBON 3.3K 5% 1/4W
R220	1-249-425-11	s CARBON 4.7K 5% 1/4W
R221	1-249-421-11	s CARBON 2.2K 5% 1/4W
R222	1-249-430-11	s CARBON 12K 5% 1/4W
R223	1-249-422-11	s CARBON 2.7K 5% 1/4W
R224	1-247-891-00	s CARBON 330K 5% 1/4W
R225	1-215-890-11	s METAL 470 5% 2W
R226	1-249-431-11	s CARBON 15K 5% 1/4W
R227	1-249-413-11	s CARBON 470 5% 1/4W
R228	1-249-417-11	s CARBON 1K 5% 1/4W
R229	1-215-882-00	s METAL 22 5% 2W
R231	1-215-882-00	s METAL 22 5% 2W
R232	1-205-657-00	s CEMENT ENCLOSE 150 5% 5W
R233	1-249-423-11	s CARBON 3.3K 5% 1/4W
R234	1-215-882-00	s METAL 22 5% 2W
R235	1-215-890-11	s METAL 470 5% 2W
R236	1-215-882-00	s METAL 22 5% 2W
R237	1-215-890-11	s METAL 470 5% 2W
R238	1-249-409-11	s CARBON 220 5% 1/4W
R239	1-249-411-11	s CARBON 330 5% 1/4W
R240	1-249-433-11	s CARBON 22K 5% 1/4W
R241	1-249-421-11	s CARBON 2.2K 5% 1/4W
R242	1-249-423-11	s CARBON 3.3K 5% 1/4W
R243	1-249-417-11	s CARBON 1K 5% 1/4W
R244	1-249-413-11	s CARBON 470 5% 1/4W
R245	1-249-431-11	s CARBON 15K 5% 1/4W
R246	1-249-417-11	s CARBON 1K 5% 1/4W
R247	1-249-435-11	s CARBON 33K 5% 1/4W
R248	1-249-413-11	s CARBON 470 5% 1/4W
R249	1-249-425-11	s CARBON 4.7K 5% 1/4W
RV201	1-237-499-21	s RES. ADJ. CERMET 500
RV202	1-228-990-00	s RES. ADJ. METAL 1K
T151	1-450-682-12	s TRANSFORMER, CONVERTER
T152	1-424-573-11	s TRANSFORMER, CURRENT
T153	1-424-573-11	s TRANSFORMER, CURRENT
T154	1-450-683-12	s TRANSFORMER, CONVERTER

B ASSY

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-834-12	o PRINTED CIRCUIT BOARD"SOPS1019B"
1pc	2-625-679-01	o HEAT SINK
1pc	2-625-748-01	s RUBBER, RADIATION
1pc	4-382-854-11	s SCREW (M3x10), P, SW(+)
C101	1-162-573-11	s CERAMIC 100PF 10% 400V
C102	1-137-110-11	s FILM 0.47uF 20% 250V
C103	1-136-185-00	s FILM 0.22uF 20% 250V
C104	1-161-742-00	s CERAMIC 0.0022uF 20% 400V
C105	1-161-742-00	s CERAMIC 0.0022uF 20% 400V
C106	1-161-742-00	s CERAMIC 0.0022uF 20% 400V
C107	1-136-206-11	s FILM 0.033uF 10% 630V
C108	1-126-406-11	s ELECT 2.2uF 20% 400V
C109	1-126-803-11	s ELECT 47uF 20% 25V
C110	1-161-742-00	s CERAMIC 0.0022uF 20% 400V
C111	1-125-703-11	s ELECT 680uF 20% 250V
C112	1-125-703-11	s ELECT 680uF 20% 250V
CN101	1-564-215-11	o PIN, CONNECTOR, 4P
CN102	1-564-242-00	o PIN, CONNECTOR, 5P
D101	8-719-510-71	s DIODE D10XB60
D102	8-719-313-16	s DIODE AU02A
D103	8-719-313-16	s DIODE AU02A
D104	8-719-313-16	s DIODE AU02A
D105	8-719-200-02	s DIODE 10E-2
D106	8-719-200-02	s DIODE 10E-2
D107	8-719-911-19	s DIODE 1SS119
D108	8-719-911-19	s DIODE 1SS119
IC101	8-749-922-70	s IC STR-81145A
L101	1-424-582-11	s COIL, AC NORMAL CHOKE
L102	1-424-583-11	s TRANSFORMER, LINE FILTER
L103	1-424-058-11	s L.F.T
PS101	1-532-637-00	s LINK, IC
Q101	8-729-205-02	s TRANSISTOR 2SA1150-Y
R101	1-202-719-00	s SOLID 1M 10% 1/2W
R102	1-217-785-11	s CEMENT (FUSE) 15 5% 5W
R105	1-247-883-00	s CARBON 150K 5% 1/4W
R106	1-247-883-00	s CARBON 150K 5% 1/4W
R107	1-247-883-00	s CARBON 150K 5% 1/4W
R108	1-247-883-00	s CARBON 150K 5% 1/4W
R109	1-260-131-11	s CARBON 470K 5% 1/2W
R110	1-260-131-11	s CARBON 470K 5% 1/2W
RY101	1-515-685-11	s RELAY

C ASSY

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-835-11	o PRINTED CIRCUIT BOARD"SOPS1019C"
C181	1-136-165-00	s FILM 0.1uF 5% 50V
C182	1-163-157-00	s FILM 0.022uF 5% 50V
C183	1-124-465-00	s ELECT 0.47uF 20% 50V
C184	1-130-047-00	s FILM 180PF 5% 50V
C185	1-136-165-00	s FILM 0.1uF 5% 50V
C186	1-163-157-00	s FILM 0.022uF 5% 50V
C187	1-163-157-00	s FILM 0.022uF 5% 50V
C188	1-163-157-00	s FILM 0.022uF 5% 50V
C189	1-124-242-00	s ELECT 33uF 20% 25V
C190	1-136-013-11	s FILM 360PF 5% 50V
C191	1-136-165-00	s FILM 0.1uF 5% 50V
C192	1-124-248-00	s ELECT 22uF 20% 25V
C193	1-126-096-11	s ELECT 10uF 20% 25V
D182	8-719-110-16	s DIODE RD10ES-B1
D183	8-719-200-02	s DIODE 10E-2
D184	8-719-110-57	s DIODE RD22ES-B2
D185	8-719-109-85	s DIODE RD5.1ES-B2
IC151	8-759-637-30	s IC M51978P
IC152	8-759-520-23	s IC FA5304P
Q181	8-729-119-78	s TRANSISTOR 2SC2785-HFE
Q182	8-729-900-80	s TRANSISTOR DTC114ES
R181	1-249-421-11	s CARBON 2.2K 5% 1/4W
R182	1-249-433-11	s CARBON 22K 5% 1/4W
R183	1-249-393-11	s CARBON 10 5% 1/4W
R184	1-249-441-11	s CARBON 100K 5% 1/4W
R185	1-249-441-11	s CARBON 100K 5% 1/4W
R186	1-249-433-11	s CARBON 22K 5% 1/4W
R187	1-249-432-11	s CARBON 18K 5% 1/4W
R188	1-249-397-11	s CARBON 22 5% 1/4W
R189	1-249-397-11	s CARBON 22 5% 1/4W
R190	1-249-393-11	s CARBON 10 5% 1/4W
R191	1-249-441-11	s CARBON 100K 5% 1/4W
R192	1-249-405-11	s CARBON 100 5% 1/4W
R193	1-247-895-00	s CARBON 470K 5% 1/4W
R194	1-249-433-11	s CARBON 22K 5% 1/4W
R195	1-247-903-11	s CARBON 1M 5% 1/4W
R196	1-249-427-11	s CARBON 6.8K 5% 1/4W

SECTION 19 CHANGED PARTS

NOTE: The number identified by making with) are matching with each serial numbers.

101) S/N 10151-	107) S/N 12491-
102) S/N 10651-	108) S/N 12851-
103) S/N 11151-	109) S/N 12951-
104) S/N 11481-	110) S/N 13101-
105) S/N 11681-	111) S/N 13316-
106) S/N 12241-	112) S/N 13616-

AU-148AP BOARD

OLD) C101 1-163-012-00 s CERAMIC,CHIP 1800PF 10% 50V
 108) C101 DELETED
 OLD) C102 1-163-012-00 s CERAMIC,CHIP 1800PF 10% 50V
 108) C102 DELETED
 OLD) C103 1-163-037-11 s CERAMIC,CHIP 0.022uF 10% 25V
 108) C103 DELETED

OLD) C120 1-130-493-00 s MYLAR 0.068uF 5% 50V
 109) C120 1-130-487-00 s MYLAR 0.022uF 5% 50V
 OLD) C139 NOT IN USE
 102) C139 1-164-182-11 s CERAMIC,CHIP 3300PF 10% 100V
 OLD) D101 8-719-941-23 s DIODE DA204U
 108) D101 DELETED

OLD) D102 8-719-941-23 s DIODE DA204U
 108) D102 DELETED
 OLD) D105 8-719-941-23 s DIODE DA204U
 108) D105 DELETED
 OLD) IC105 8-759-240-69 s IC TC4069UBP
 108) IC105 DELETED

OLD) Q101 8-729-143-07 s TRANSISTOR 2SA1610-Y33
 108) Q101 DELETED
 OLD) Q102 8-729-143-07 s TRANSISTOR 2SA1610-Y33
 108) Q102 DELETED
 OLD) R101 1-216-111-00 s METAL,CHIP 390K 5% 1/10W
 108) R101 DELETED

OLD) R102 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R102 DELETED
 OLD) R103 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R103 DELETED
 OLD) R104 1-216-111-00 s METAL,CHIP 390K 5% 1/10W
 108) R104 DELETED

OLD) R105 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R105 DELETED
 OLD) R106 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R106 DELETED
 OLD) R107 1-216-089-00 s METAL,CHIP 47K 5% 1/10W
 108) R107 DELETED

OLD) R132 1-216-049-00 s METAL,CHIP 1K 5% 1/10W
 109) R132 1-216-073-00 s METAL,CHIP 10K 5% 1/10W
 OLD) R141 1-215-475-00 s METAL 180K 1% 1/6W
 108) R141 DELETED
 OLD) R143 1-216-675-11 s METAL,CHIP 10K 0.5% 1/10W
 108) R143 1-216-679-11 s METAL,CHIP 15K 0.5% 1/10W

OLD) R144 1-215-493-00 s METAL 1M 1% 1/6W
 108) R144 1-215-485-00 s METAL 470K 1% 1/6W
 OLD) R147 1-216-695-11 s METAL,CHIP 68K 0.5% 1/10W
 108) R147 1-216-692-11 s METAL,CHIP 51K 0.5% 1/10W
 OLD) R148 1-215-459-00 s METAL 39K 1% 1/6W
 108) R148 1-215-467-00 s METAL 82K 1% 1/6W

(AU-148AP BOARD)

OLD) R161 NOT IN USE
 102) R161 1-216-667-11 s METAL,CHIP 4.7K 0.5% 1/10W
 OLD) R162 NOT IN USE
 102) R162 1-216-667-11 s METAL,CHIP 4.7K 0.5% 1/10W
 OLD) R343 NOT IN USE
 102) R343 1-216-668-11 s METAL,CHIP 5.1K 0.5% 1/10W

OLD) RY101 1-515-434-00 s RELAY, REED
 108) RY101 DELETED
 OLD) RY102 1-515-434-00 s RELAY, REED
 108) RY102 DELETED

AU-149AP BOARD

OLD) C101 1-163-012-00 s CERAMIC,CHIP 1800PF 10% 50V
 108) C101 DELETED
 OLD) C102 1-163-012-00 s CERAMIC,CHIP 1800PF 10% 50V
 108) C102 DELETED
 OLD) C103 1-163-037-11 s CERAMIC,CHIP 0.022uF 10% 25V
 108) C103 DELETED

OLD) C120 1-130-493-00 s MYLAR 0.068uF 5% 50V
 109) C120 1-130-487-00 s MYLAR 0.022uF 5% 50V
 OLD) C139 NOT IN USE
 102) C139 1-164-182-11 s CERAMIC,CHIP 3300PF 10% 100V
 OLD) D101 8-719-941-23 s DIODE DA204U
 108) D101 DELETED

OLD) D102 8-719-941-23 s DIODE DA204U
 108) D102 DELETED
 OLD) D105 8-719-941-23 s DIODE DA204U
 108) D105 DELETED
 OLD) IC105 8-759-240-69 s IC TC4069UBP
 108) IC105 DELETED

OLD) Q101 8-729-143-07 s TRANSISTOR 2SA1610-Y33
 108) Q101 DELETED
 OLD) Q102 8-729-143-07 s TRANSISTOR 2SA1610-Y33
 108) Q102 DELETED
 OLD) R101 1-216-111-00 s METAL,CHIP 390K 5% 1/10W
 108) R101 DELETED

OLD) R102 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R102 DELETED
 OLD) R103 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R103 DELETED
 OLD) R104 1-216-111-00 s METAL,CHIP 390K 5% 1/10W
 108) R104 DELETED

OLD) R105 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R105 DELETED
 OLD) R106 1-216-065-00 s METAL,CHIP 4.7K 5% 1/10W
 108) R106 DELETED
 OLD) R107 1-216-089-00 s METAL,CHIP 47K 5% 1/10W
 108) R107 DELETED

(AU-149AP BOARD)

OLD) R132 1-216-049-00 s METAL,CHIP 1K 5% 1/10W
109) R132 1-216-073-00 s METAL,CHIP 10K 5% 1/10W
OLD) R143 1-216-675-11 s METAL,CHIP 10K 0.5% 1/10W
108) R143 1-216-692-11 s METAL,CHIP 51K 0.5% 1/10W
OLD) R144 1-215-493-00 s METAL 1M 1% 1/6W
108) R144 1-215-459-00 s METAL 39K 1% 1/6W

OLD) R148 1-215-467-00 s METAL 82K 1% 1/6W
108) R148 1-215-477-00 s METAL 220K 1% 1/6W
OLD) R161 NOT IN USE
102) R161 1-216-667-11 s METAL,CHIP 4.7K 0.5% 1/10W
OLD) R162 NOT IN USE
102) R162 1-216-667-11 s METAL,CHIP 4.7K 0.5% 1/10W

OLD) R343 NOT IN USE
102) R343 1-216-668-11 s METAL,CHIP 5.1K 0.5% 1/10W
OLD) RY101 1-515-434-00 s RELAY, REED
108) RY101 DELETED
OLD) RY102 1-515-434-00 s RELAY, REED
108) RY102 DELETED

AU-150A BOARD

OLD) C9 1-163-009-11 s CERAMIC,CHIP 1000PF 10% 50V
102) C9 DELETED
OLD) Q211 8-729-905-12 s TRANSISTOR DTA144EU
102) Q211 DELETED
OLD) Q212 8-729-905-12 s TRANSISTOR DTA144EU
102) Q212 DELETED

CP-166A BOARD

OLD) CN9 1-573-590-11 s CONNECTOR CIRCULAR 4P FEMALE
101) CN9 1-573-590-12 s CONNECTOR CIRCULAR 4P FEMALE

CP-167A BOARD

OLD) C112 1-161-772-11 s CERAMIC 0.1uF 10% 25V
101) C112 1-163-038-00 s CERAMIC,CHIP 0.1uF 25V
OLD) C212 1-161-772-11 s CERAMIC 0.1uF 10% 25V
101) C212 1-163-038-00 s CERAMIC,CHIP 0.1uF 25V
OLD) C318 1-161-772-11 s CERAMIC 0.1uF 10% 25V
101) C318 1-163-038-00 s CERAMIC,CHIP 0.1uF 25V

OLD) C319 1-161-772-11 s CERAMIC 0.1uF 10% 25V
101) C319 1-163-038-00 s CERAMIC,CHIP 0.1uF 25V
OLD) D103 8-719-911-19 s DIODE 1SS119
101) D103 8-719-123-82 s DIODE 1SS303
OLD) D202 8-719-911-19 s DIODE 1SS119
101) D202 DELETED

OLD) D306 8-719-911-19 s DIODE 1SS119
101) D306 DELETED
OLD) D307 8-719-911-19 s DIODE 1SS119
101) D307 DELETED
OLD) R132 1-247-903-00 s CARBON 1M 5% 1/4W
101) R132 1-216-121-00 s METAL,CHIP 1M 5% 1/10W

(CP-167A BOARD)

OLD) R232 1-247-903-00 s CARBON 1M 5% 1/4W
101) R232 1-216-121-00 s METAL,CHIP 1M 5% 1/10W
OLD) R337 1-247-903-00 s CARBON 1M 5% 1/4W
101) R337 1-216-121-00 s METAL,CHIP 1M 5% 1/10W
OLD) R338 1-247-903-00 s CARBON 1M 5% 1/4W
101) R338 1-216-121-00 s METAL,CHIP 1M 5% 1/10W

DR-118A BOARD

OLD) C90 1-161-021-11 s CERAMIC 0.047uF 10% 25V
101) C90 DELETED
OLD) C103 1-124-120-11 s ELECT 220uF 20% 25V
108) C103 1-124-478-11 s ELECT 100uF 20% 25V
OLD) C908 1-124-907-11 s ELECT 10uF 20% 50V
111) C908 DELETED

OLD) C909 1-124-907-11 s ELECT 10uF 20% 50V
111) C909 DELETED
OLD) CN1A 1-506-468-11 s CONNECTOR 3P MALE
111) CN1A DELETED
OLD) CN1B 1-506-468-11 s CONNECTOR 3P MALE
111) CN1B DELETED

OLD) CN2A 1-506-468-11 s CONNECTOR 3P MALE
102) CN2A DELETED
OLD) CN2B 1-506-468-11 s CONNECTOR 3P MALE
102) CN2B DELETED
OLD) CN3A 1-506-467-11 s CONNECTOR 2P MALE
111) CN3A DELETED

OLD) CN3B 1-506-467-11 s CONNECTOR 2P MALE
111) CN3B DELETED
OLD) CN4A 1-506-468-11 s CONNECTOR 3P MALE
102) CN4A DELETED
OLD) CN4B 1-506-468-11 s CONNECTOR 3P MALE
102) CN4B DELETED

OLD) CN5A 1-506-467-11 s CONNECTOR 2P MALE
111) CN5A DELETED
OLD) CN5B 1-506-467-11 s CONNECTOR 2P MALE
111) CN5B DELETED
OLD) CN6A 1-506-467-11 s CONNECTOR 2P MALE
111) CN6A DELETED

OLD) CN6B 1-506-467-11 s CONNECTOR 2P MALE
111) CN6B DELETED
OLD) CN7A 1-506-467-11 s CONNECTOR 2P MALE
111) CN7A DELETED
OLD) CN7B 1-506-467-11 s CONNECTOR 2P MALE
111) CN7B DELETED

OLD) CN8A 1-506-468-11 s CONNECTOR 3P MALE
111) CN8A DELETED
OLD) CN8B 1-506-468-11 s CONNECTOR 3P MALE
111) CN8B DELETED
OLD) CN9A 1-506-467-11 s CONNECTOR 2P MALE
111) CN9A DELETED

OLD) CN9B 1-506-467-11 s CONNECTOR 2P MALE
111) CN9B DELETED
OLD) D311 8-719-911-19 s DIODE 1SS119
111) D311 8-719-123-85 s DIODE 1SS304
OLD) D312 8-719-911-19 s DIODE 1SS119
111) D312 8-719-123-85 s DIODE 1SS304

(DR-118A BOARD)

OLD) IC201 8-759-710-28 s IC NJM4565M-A
104) IC201 8-759-981-11 s IC NJM4560M
OLD) IC302 8-759-710-28 s IC NJM4565M-A
104) IC302 8-759-981-11 s IC NJM4560M
OLD) IC501 8-759-710-28 s IC NJM4565M-A
104) IC501 8-759-981-11 s IC NJM4560M

OLD) IC901 NOT IN USE
102) IC901 8-759-701-79 s IC NJM7812FA
OLD) Q808 8-729-209-07 s TRANSISTOR 2SC4213B
104) Q808 DELETED
OLD) Q809 8-729-209-07 s TRANSISTOR 2SC4213B
104) Q809 DELETED

OLD) Q955 8-729-905-18 s TRANSISTOR DTC144EU
101) Q955 DELETED
OLD) R20 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
105) R20 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
OLD) R22 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
105) R22 1-216-089-00 s METAL, CHIP 47K 5% 1/10W

OLD) R24 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
105) R24 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
OLD) R26 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
105) R26 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
OLD) R33 NOT IN USE
102) R33 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

OLD) R34 NOT IN USE
102) R34 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
OLD) R35 NOT IN USE
102) R35 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
OLD) R36 NOT IN USE
102) R36 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

OLD) R37 NOT IN USE
102) R37 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
OLD) R38 NOT IN USE
102) R38 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
OLD) R160 1-249-413-11 s CARBON 470 5% 1/4W
111) R160 1-216-041-00 s METAL, CHIP 470 5% 1/10W

OLD) R256 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
108) R256 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
OLD) R257 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
108) R257 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
OLD) R266 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
108) R266 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W

OLD) R267 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
108) R267 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
OLD) R276 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
108) R276 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
OLD) R277 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
108) R277 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W

OLD) R286 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
108) R286 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
OLD) R287 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
108) R287 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
OLD) R313 1-216-295-00 s METAL, CHIP 0
101) R313 DELETED

OLD) R401 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
108) R401 1-216-670-11 s METAL, CHIP 6.2K 0.5% 1/10W
OLD) R902 1-217-666-31 s SHORT 0.01 1/6W
111) R902 DELETED

HC-14C BOARD

OLD) R131 1-249-425-11 s CARBON 4.7K 5% 1/4W
102) R131 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
OLD) R500 1-216-295-00 s METAL, CHIP 0
102) R500 DELETED

MA-44A BOARD

OLD) C29 1-161-772-11 s CERAMIC 0.1uF 10% 25V
102) C29 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
OLD) C30 1-161-772-11 s CERAMIC 0.1uF 10% 25V
102) C30 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
OLD) D3 8-719-911-19 s DIODE 1SS119
102) D3 8-719-123-82 s DIODE 1SS303

OLD) D4 8-719-911-19 s DIODE 1SS119
102) D4 DELETED
OLD) R59 1-247-903-00 s CARBON 1M 5% 1/4W
102) R59 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
OLD) R60 1-247-903-00 s CARBON 1M 5% 1/4W
102) R60 1-216-121-00 s METAL, CHIP 1M 5% 1/10W

OLD) R61 1-247-903-00 s CARBON 1M 5% 1/4W
102) R61 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
OLD) R62 1-247-903-00 s CARBON 1M 5% 1/4W
102) R62 1-216-121-00 s METAL, CHIP 1M 5% 1/10W

MB-322A BOARD

OLD) C101 NOT IN USE
105) C101 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
OLD) C102 NOT IN USE
105) C102 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
OLD) CN226 1-565-882-11 s CONNECTOR 10P MALE
109) CN226 DELETED

PD-56 BOARD

OLD) C1 1-162-730-11 s CERAMIC 680PF 1% 50V
103) C1 DELETED
OLD) C2 1-162-730-11 s CERAMIC 680PF 1% 50V
103) C2 DELETED
OLD) R1 1-249-428-11 s CARBON 8.2K 5% 1/4W
108) R1 DELETED

OLD) R2 1-249-428-11 s CARBON 8.2K 5% 1/4W
108) R2 DELETED

RP-57AP BOARD

OLD) C702 1-126-101-11 s ELECT 100uF 20% 16V
 109) C702 1-124-477-11 s ELECT 47uF 20% 16V
 OLD) C703 1-126-101-11 s ELECT 100uF 20% 16V
 109) C703 1-124-477-11 s ELECT 47uF 20% 16V
 OLD) C706 1-126-101-11 s ELECT 100uF 20% 16V
 109) C706 1-124-477-11 s ELECT 47uF 20% 16V

OLD) C713 1-126-101-11 s ELECT 100uF 20% 16V
 109) C713 1-124-477-11 s ELECT 47uF 20% 16V
 OLD) C714 1-126-101-11 s ELECT 100uF 20% 16V
 109) C714 1-124-477-11 s ELECT 47uF 20% 16V
 OLD) C717 1-126-101-11 s ELECT 100uF 20% 16V
 109) C717 1-124-477-11 s ELECT 47uF 20% 16V

OLD) C719 1-126-101-11 s ELECT 100uF 20% 16V
 109) C719 1-124-477-11 s ELECT 47uF 20% 16V
 OLD) C721 1-126-101-11 s ELECT 100uF 20% 16V
 109) C721 1-124-477-11 s ELECT 47uF 20% 16V
 OLD) C722 1-126-101-11 s ELECT 100uF 20% 16V
 109) C722 1-124-477-11 s ELECT 47uF 20% 16V

OLD) C725 1-126-101-11 s ELECT 100uF 20% 16V
 109) C725 1-124-477-11 s ELECT 47uF 20% 16V

SS-48P BOARD

OLD) C524 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V
 111) C524 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V
 OLD) C625 NOT IN USE
 111) C625 1-126-157-11 s ELECT 10uF 20% 16V
 OLD) D801 8-719-941-23 s DIODE DA204U
 103) D801 8-719-800-76 s DIODE 1SS226

OLD) IC6 8-752-337-78 s IC CXK58257AM-10L
 111) IC6 8-759-515-54 s IC MS62256CLL-10FC-EF
 OLD) IC303 8-752-323-63 s IC CXK5816M-10L
 103) IC303 8-759-054-54 s IC SRM2016M10
 OLD) IC406 8-752-323-63 s IC CXK5816M-10L
 103) IC406 8-759-054-54 s IC SRM2016M10

OLD) IC607 8-759-514-41 s IC AM27C010-150DC
 109) IC607 8-759-089-73 s IC C010-PW2000SV220
 OLD) IC612 8-752-323-63 s IC CXK5816M-10L
 103) IC612 8-759-054-54 s IC SRM2016M10
 OLD) IC707 8-752-323-63 s IC CXK5816M-10L
 103) IC707 8-759-054-54 s IC SRM2016M10

OLD) IC707 8-759-054-54 s IC SRM2016M10
 108) IC707 8-752-323-63 s IC CXK5816M-10L
 OLD) Q805 8-729-905-18 s TRANSISTOR DTC144EU
 103) Q805 8-729-901-01 s TRANSISTOR DTC144EK
 OLD) R484 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 103) R484 1-216-079-00 s METAL, CHIP 18K 5% 1/10W

OLD) R527 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 103) R527 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 OLD) R527 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 111) R527 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
 OLD) R672 NOT IN USE
 103) R672 1-216-097-00 s METAL, CHIP 100K 5% 1/10W

OLD) R831 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
 101) R831 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 OLD) R838 1-216-077-00 s METAL, CHIP 15K 5% 1/10W
 101) R838 1-216-089-00 s METAL, CHIP 47K 5% 1/10W

TBC-18P BOARD

OLD) C387 1-161-053-00 s CERAMIC 0.015uF 10% 50V
 101) C387 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
 OLD) C549 1-162-718-11 s CERAMIC 220PF 1% 50V
 101) C549 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V
 OLD) C550 1-162-718-11 s CERAMIC 220PF 1% 50V
 101) C550 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V

OLD) C796 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V
 102) C796 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
 OLD) C807 NOT IN USE
 107) C807 1-124-903-11 s ELECT 1uF 20% 50V
 OLD) C810 NOT IN USE
 107) C810 1-161-051-00 s CERAMIC 0.01uF 10% 50V

OLD) C811 NOT IN USE
 107) C811 1-161-051-00 s CERAMIC 0.01uF 10% 50V
 OLD) C820 NOT IN USE
 105) C820 1-162-718-11 s CERAMIC 220PF 1% 50V
 OLD) C870 1-124-903-11 s ELECT 1uF 20% 50V
 107) C870 DELETED

OLD) D308 8-719-123-82 s DIODE 1SS303
 102) D308 DELETED
 OLD) D505 8-719-123-82 s DIODE 1SS303
 102) D505 DELETED
 OLD) IC501 8-759-513-77 s IC CXD81520
 105) IC501 8-759-055-71 s IC CXD83130

OLD) IC502 8-759-513-77 s IC CXD81520
 105) IC502 8-759-055-71 s IC CXD83130
 OLD) IC503 8-752-337-41 s IC CXD1206M
 107) IC503 8-752-340-75 s IC CXD1206AM
 OLD) IC504 8-752-337-41 s IC CXD1206M
 107) IC504 8-752-340-75 s IC CXD1206AM

OLD) IC505 8-752-337-41 s IC CXD1206M
 107) IC505 8-752-340-75 s IC CXD1206AM
 OLD) IC506 8-752-337-41 s IC CXD1206M
 107) IC506 8-752-340-75 s IC CXD1206AM
 OLD) IC730 NOT IN USE
 101) IC730 8-759-234-20 s IC TC7S08F

OLD) L3 1-412-533-11 s INDUCTOR 47uH
 104) L3 1-412-533-31 s INDUCTOR 47uH
 OLD) R317 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
 107) R317 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
 OLD) R352 1-249-421-11 s CARBON 2.2K 5% 1/4W
 101) R352 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

OLD) R389 1-249-429-11 s CARBON 10K 5% 1/4W
 101) R389 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 OLD) R487 1-249-429-11 s CARBON 10K 5% 1/4W
 101) R487 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

VP-33AP BOARD

OLD) C154 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V
 107) C154 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 OLD) C708 1-163-222-11 s CERAMIC, CHIP 5PF 50V
 106) C708 1-163-227-11 s CERAMIC, CHIP 10PF 0.5PF 50V
 OLD) C766 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V
 103) C766 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V

 OLD) C770 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V
 103) C770 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V
 OLD) C773 NOT IN USE
 106) C773 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V
 OLD) C774 NOT IN USE
 106) C774 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V

 OLD) C790 1-107-202-00 s MICA 10PF 5% 500V
 106) C790 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
 OLD) CN205 NOT IN USE
 106) CN205 1-506-467-11 s CONNECTOR 2P MALE
 OLD) CN705 NOT IN USE
 106) CN705 1-506-467-11 s CONNECTOR 2P MALE

 OLD) FL702 1-236-091-11 s FILTER, LOW-PASS
 106) FL702 DELETED
 OLD) L721 NOT IN USE
 106) L721 1-408-419-00 s INDUCTOR 68uH
 OLD) Q202 8-729-905-18 s TRANSISTOR DTC144EU
 106) Q202 DELETED

 OLD) Q262 8-729-143-07 s TRANSISTOR 2SA1610-Y33
 109) Q262 8-729-905-12 s TRANSISTOR DTA144EU
 OLD) Q265 8-729-143-07 s TRANSISTOR 2SA1610-Y33
 109) Q265 8-729-905-12 s TRANSISTOR DTA144EU
 OLD) R103 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W
 101) R103 1-216-295-00 s METAL, CHIP 0

 OLD) R104 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W
 101) R104 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W
 OLD) R107 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W
 101) R107 1-216-295-00 s METAL, CHIP 0
 OLD) R108 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W
 101) R108 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W

 OLD) R141 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
 103) R141 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
 OLD) R229 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 106) R229 DELETED
 OLD) R254 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
 107) R254 1-216-663-91 s METAL, CHIP 3.3K 0.5% 1/10W

 OLD) R278 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 103) R278 DELETED
 OLD) R281 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 103) R281 DELETED
 OLD) R337 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W
 109) R337 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W

 OLD) R362 NOT IN USE
 109) R362 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 OLD) R363 NOT IN USE
 109) R363 1-216-063-00 s METAL, CHIP 3.9K 5% 1/10W
 OLD) R364 NOT IN USE
 109) R364 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

 OLD) R365 NOT IN USE
 109) R365 1-216-063-00 s METAL, CHIP 3.9K 5% 1/10W
 OLD) R368 NOT IN USE
 109) R368 1-216-664-11 s METAL, CHIP 3.6K 0.5% 1/10W
 OLD) R554 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 101) R554 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W

(VP-33AP BOARD)

OLD) R558 NOT IN USE
 106) R558 1-216-295-00 s METAL, CHIP 0
 OLD) R573 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 103) R573 DELETED
 OLD) R576 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 103) R576 DELETED

 OLD) R636 1-216-645-11 s METAL 560 0.5% 1/10W
 109) R636 1-216-646-11 s METAL 620 0.5% 1/10W
 OLD) R644 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W
 109) R644 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
 OLD) R649 NOT IN USE
 109) R649 1-216-672-11 s METAL 7.5K 0.5% 1/10W

 OLD) R980 1-215-421-00 s METAL 1K 1% 1/6W
 106) R980 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
 OLD) R981 1-247-405-11 s CARBON 100 5% 1/4W
 106) R981 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 OLD) R1001 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 110) R1001 1-216-033-00 s METAL, CHIP 220 5% 1/10W

 OLD) R1001 1-216-033-00 s METAL, CHIP 220 5% 1/10W
 112) R1001 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 OLD) R2001 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 110) R2001 1-216-033-00 s METAL, CHIP 220 5% 1/10W
 OLD) R3001 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 110) R3001 1-216-033-00 s METAL, CHIP 220 5% 1/10W

 OLD) RV112 1-238-016-11 s RES, ADJ CARBON 10K
 103) RV112 1-238-802-11 s RES, ADJ CERMET 10K
 OLD) RV504 1-238-801-11 s RES, ADJ CERMET 5K
 109) RV504 1-238-802-11 s RES, ADJ CERMET 10K
 OLD) RV505 1-238-801-11 s RES, ADJ CERMET 5K
 109) RV505 1-238-802-11 s RES, ADJ CERMET 10K

 OLD) RV719 1-238-012-11 s RES, ADJ CARBON 1K
 103) RV719 1-238-799-11 s RES, ADJ CERMET 1K
 OLD) TH301 NOT IN USE
 109) TH301 1-800-199-11 s THERMISTOR S-1250
 OLD) TH601 NOT IN USE
 109) TH601 1-800-199-11 s THERMISTOR S-1250